

Swope, Sheridan

From: Schreiber, David
Sent: Wednesday, March 10, 2004 3:06 PM
To: Swope, Sheridan
Cc: O'Bryen, Barbara
Subject: Proposal 09/966,880

The full run that you would requested would take 65 hours of run time. As I mentioned, we are proposing to run seq 9, std & oligo, interference databases and seq 10 and 11, std & oligo, in all databases including interference. The run time for our proposed search is about 31 hours. We have at least 80 hours in each queue including the dedicated rush queue.

David Schreiber, Ph.D.
Scientific and Technical Information Center
Biotech/Chem Library
Old address and phone:
CM1-6A03
703-308-4292
New address and phone:
Remsen E01A61
571-272-2526

Swope, Sheridan

From: Swope, Sheridan
Sent: Wednesday, March 10, 2004 8:10 PM
To: Schreiber, David
Subject: RE: Proposal 09/966,880

David, Thanks for contacting me on this.
Let's do the following.

A.
Interference search sid 9; full-length and oligo.
Search and Interference Search sid 10; full-length and oligo.

B.
After I analyze the results:
If there are any oligo hits for Sid 9, align the hits with sid 11.
If there are any oligo hits for Sid 10, align the hits with sid 12-15.

Let me know how long you think A will take.

Thanks!

Note: SID 9 comprises sid 11
SID 10 comprises sid 12-15.

*An oligo search on SID 7 would
encompass an oligo search
of SID 11-15.*

-----Original Message-----

From: Schreiber, David
Sent: Wednesday, March 10, 2004 3:06 PM
To: Swope, Sheridan
Cc: O'Bryen, Barbara
Subject: Proposal 09/966,880

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David Schreiber, Ph.D.
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QY	721	TATTTGTGTATCATGATTATATGAAGTGTCTACTGTATCTGCTCTGATCTTGG	780
Db	721	TATTTGTGTATCATGATTATATGAAGTGTCTACTGTATCTGCTCTGATCTTGG	780
QY	781	TAGCTATGAGCATGAGCTGGGCTTTTAAAGCAGCGCCCAAGAACTTAACTTAA	840
Db	781	TAGCTATGAGCATGAGCTGGGCTTTTAAAGCAGCGCCCAAGAACTTAACTTAA	840
QY	841	AGGAGAGCTGGCCCTCAATGGTTTAACTGTGACTCTGCTATGACAGCCCAACC	900
Db	841	AGGAGAGCTGGCCCTCAATGGTTTAACTGTGACTCTGCTATGACAGCCCAACC	900
QY	901	CATCTTCACCTGATGCCAATCAGAGCAAGCGCTTGGGTACCTGTGGGGTATGCT	960
Db	901	CATCTTCACCTGATGCCAATCAGAGCAAGCGCTTGGGTACCTGTGGGGTATGCT	960
QY	961	GTGAGGGAGAGAGCCCAAAAGGCAAGCTCAAAATTGAAATGTGAAGGCGCAATGACTGT	1020
Db	961	GTGAGGGAGAGAGCCCAAAAGGCAAGCTCAAAATTGAAATGTGAAGGCGCAATGACTGT	1020
QY	1021	CAGACTGAGACAGAGAACCACTATTAATGAAGTGAATTTTCTGGCCTGAGACTTGA	1080
Db	1021	CAGACTGAGACAGAGAACCACTATTAATGAAGTGAATTTTCTGGCCTGAGACTTGA	1080
QY	1081	GGGAGGCAAGAGACACTCTGACACCACTATGACAGGTTAAAGAGGAGCTTCTGCGT	1140
Db	1081	GGGAGGCAAGAGACACTCTGACACCACTATGACAGGTTAAAGAGGAGCTTCTGCGT	1140
QY	1141	GGTATATGCACTGAGCCCTTCTCTCAGAGCAATCTGAGTAATGAGACTGTAGCTATGCC	1200
Db	1141	GGTATATGCACTGAGCCCTTCTCTCAGAGCAATCTGAGTAATGAGACTGTAGCTATGCC	1200
QY	1201	TTTCTCTCATGTAACCTGTGACTGATGATGAGTCACTTGTCAATATATATTTT	1260
Db	1201	TTTCTCTCATGTAACCTGTGACTGATGATGAGTCACTTGTCAATATATATTTT	1260
QY	1261	TTGATCTGTCTCTTTCTCTCTATGAGACTTATGCGCTGACGCCAATCTTCTGT	1320
Db	1261	TTGATCTGTCTCTTTCTCTCTATGAGACTTATGCGCTGACGCCAATCTTCTGT	1320
QY	1321	TTGAGACTCTCTTGAATTTCCCTCTTTTCATGTGCAAAAGAGTGGCTACATATGT	1380
Db	1321	TTGAGACTCTCTTGAATTTCCCTCTTTTCATGTGCAAAAGAGTGGCTACATATGT	1380
QY	1381	ACTGATTCGTCTGAGATTTGTACCAATGTTGAACCACTAATTTATGTAATATATTAACA	1440
Db	1381	ACTGATTCGTCTGAGATTTGTACCAATGTTGAACCACTAATTTATGTAATATATTAACA	1440
QY	1441	TAGCAAACTCTTTAGAGCTCAATCATGAAAAGTAAATAGACTGTATCTTAAACCG	1500
Db	1441	TAGCAAACTCTTTAGAGCTCAATCATGAAAAGTAAATAGACTGTATCTTAAACCG	1500
QY	1501	TAGGCTAATTTTGTATATAATTTGTAAATTTCAACAGTAAACCACTGGAAGACA	1560
Db	1501	TAGGCTAATTTTGTATATAATTTGTAAATTTCAACAGTAAACCACTGGAAGACA	1560
QY	1561	CTTTCCTAGGAGGCGTTACTGAAATATTAGCTATAGTAAAGAAATTTGTAATTTAG	1620
Db	1561	CTTTCCTAGGAGGCGTTACTGAAATATTAGCTATAGTAAAGAAATTTGTAATTTAG	1620
QY	1621	AAATGCCAAGACTTAAATTTATTTGCTTGAAGTCAATGATTTGTTCATTATTAAG	1680
Db	1621	AAATGCCAAGACTTAAATTTATTTGCTTGAAGTCAATGATTTGTTCATTATTAAG	1680
QY	1681	AGAAATTTCAATCAACAGATTTTAAATGTTAAAGGCCCAATGTTAGGCGTTAAG	1740
Db	1681	AGAAATTTCAATCAACAGATTTTAAATGTTAAAGGCCCAATGTTAGGCGTTAAG	1740
QY	1741	GCACCTTTACTATTAATCTTTCATTTGTTCAAGCTAGCTTAACTTACCTCTTAA	1800
Db	1741	GCACCTTTACTATTAATCTTTCATTTGTTCAAGCTAGCTTAACTTACCTCTTAA	1800
QY	1801	GTGTGAATTTGGTTAAGTCTCATTAATGCTTTTANGTGAATTTTGAATGAGTTATGT	1860
Db	1801	GTGTGAATTTGGTTAAGTCTCATTAATGCTTTTANGTGAATTTTGAATGAGTTATGT	1860
QY	1861	CATGAACTTAATCTATTTCTTCAATTTATGATTAATGATATGATGAAATTAACCTTA	1920
Db	1861	CATGAACTTAATCTATTTCTTCAATTTATGATTAATGATATGATGAAATTAACCTTA	1920
QY	1921	ATCCTTATCTTAACTCAATTTAACTCTTTTAAAGAACTTAACTTAACTTAAAG	1980
Db	1921	ATCCTTATCTTAACTCAATTTAACTCTTTTAAAGAACTTAACTTAACTTAAAG	1980
QY	1981	TTTTTAAATATATTTTGTGTAAGACAGGGTCTTACCCAGCCAGGCTGTCTCT	2040
Db	1981	TTTTTAAATATATTTTGTGTAAGACAGGGTCTTACCCAGCCAGGCTGTCTCTCT	2040
QY	2041	AAATCTGGGCGCCAGAGATCTCTGCTGGGCTCTCTTAAAGTGTGAATTTAGACAT	2100
Db	2041	AAATCTGGGCGCCAGAGATCTCTGCTGGGCTCTCTTAAAGTGTGAATTTAGACAT	2100
QY	2101	GAGCCATCATCTCAATATACAGAAATTTTAAATGAGATTTAAATGTTCTTCAAG	2160
Db	2101	GAGCCATCATCTCAATATACAGAAATTTTAAATGAGATTTAAATGAGATTTAAATGTTCTTCAAG	2160
QY	2161	AAATTTTCTTGAAGTCAAGCAATGTCAAAATGTCTCTCAGTTTAACTGAGATTTTGA	2220
Db	2161	AAATTTTCTTGAAGTCAAGCAATGTCAAAATGTCTCTCAGTTTAACTGAGATTTTGA	2220
QY	2221	AAACAAGTCAATATGAGTCTTGTGAAGGTCATTTGAATTTCTTGTCAAACTTAA	2280
Db	2221	AAACAAGTCAATATGAGTCTTGTGAAGGTCATTTGAATTTCTTGTCAAACTTAA	2280
QY	2281	ATGAAAGCAAAAGTTAAATCAGAGTTGAATTCAGAGAAACAGAGAAAGAGAGAAAG	2340
Db	2281	ATGAAAGCAAAAGTTAAATCAGAGTTGAATTCAGAGAAACAGAGAAAGAGAGAAAG	2340
QY	2341	ATGAAATTTCAACAGACAGAGAGAAATATATTAATCAATTAAGAGAGACAGTATCTGTAGA	2400
Db	2341	ATGAAATTTCAACAGACAGAGAGAAATATATTAATCAATTAAGAGAGACAGTATCTGTAGA	2400
QY	2401	GCTCATTTAGTATGAGCAAAATGACTGTGAGATTTATTTTAAACCGCTGTGTTCTGT	2460
Db	2401	GCTCATTTAGTATGAGCAAAATGACTGTGAGATTTATTTTAAACCGCTGTGTTCTGT	2460
QY	2461	TTGACAGGCTGGGATGACAGTAAAGTCTGCTCAGAGAGACAGCTGTCCAGAGAGC	2520
Db	2461	TTGACAGGCTGGGATGACAGTAAAGTCTGCTCAGAGAGACAGCTGTCCAGAGAGC	2520
QY	2521	TGTGAGCTGTGAGGCTTGAACCACTCCCTCGTAAAGTCTCTCTCACTCAGAGACAGAAAT	2580
Db	2521	TGTGAGCTGTGAGGCTTGAACCACTCCCTCGTAAAGTCTCTCTCACTCAGAGACAGAAAT	2580
QY	2581	GACGAGAAACAGGAGCTGGAACAGGCCCTTAACAGAGAGAGAGAAATGATCAACA	2640
Db	2581	GACGAGAAACAGGAGCTGGAACAGGCCCTTAACAGAGAGAGAGAAATGATCAACA	2640
QY	2641	AAATTAATGAGAGGCTGAGATCAGCAATTCATTCACTGTGACTGTGTAACATGTACA	2700
Db	2641	AAATTAATGAGAGGCTGAGATCAGCAATTCATTCACTGTGACTGTGTAACATGTACA	2700
QY	2701	GAAACAGTGTAGGCTTATTTGATTTTCAATGATGATGAGAACCCCAAAATCAACCAAGT	2760
Db	2701	GAAACAGTGTAGGCTTATTTGATTTTCAATGATGATGAGAACCCCAAAATCAACCAAGT	2760
QY	2761	CCTTATCTATGCAACATCTCTTATCTATCTTCAAGACATTTTCTTCTTATGA	2820
Db	2761	CCTTATCTATGCAACATCTCTTATCTATCTTCAAGACATTTTCTTCTTATGA	2820
QY	2821	TAAAGCTCTCTCTCTTCAACACACACACACACACACACACACACACACACACACAC	2880
Db	2821	TAAAGCTCTCTCTCTTCAACACACACACACACACACACACACACACACACACACAC	2880
QY	2881	CACAAACACACACCCCGGCAACCAAGGTGATGTAAGTGAATTCCTGCGCTTT	2940
Db	2881	CACAAACACACACCCCGGCAACCAAGGTGATGTAAGTGAATTCCTGCGCTTT	2940

Db 2881 CACAAACACACACCCGCCAACCAAGTGCATGTAAAAAGATGAGATTCCTGCTCTT 2940
QY 2941 CTCATCTACAGAGCCAGAGGGTAAGTAATATATAGAGGATTTATGTGTAAGATGA 3000
Db 2941 CTCATCTACAGAGCCAGAGGGTAAGTAATATATAGAGGATTTATGTGTAAGATGA 3000
QY 3001 TGCCTTAATCTGTTTACACTGGGCTCAAGAGAAATTTCTTTCTCTGACTTATTA 3060
Db 3001 TGCCTTAATCTGTTTACACTGGGCTCAAGAGAAATTTCTTTCTCTGACTTATTA 3060
QY 3061 AGCACTTAATGTGTGAGCTTATATATACAAAGGGTTATATATGCTAAATATATAT 3120
Db 3061 AGCACTTAATGTGTGAGCTTATATATACAAAGGGTTATATATGCTAAATATATAT 3120
QY 3121 AGTATATGTGTGTGTATATATATATATATATATATATATATATATATATATAT 3180
Db 3121 AGTATATGTGTGTGTATATATATATATATATATATATATATATATATATATAT 3180
QY 3181 CTAAATTAAT 3240
Db 3181 CTAAATTAAT 3240
QY 3241 AAAAGACATCTCACCTGTTTACCAGGCTGAGTGCAGTGTGCATCATAGCTTTCTG 3300
Db 3241 AAAAGACATCTCACCTGTTTACCAGGCTGAGTGCAGTGTGCATCATAGCTTTCTG 3300
QY 3301 CAGCTTTGAACTCTGAGGCTCAAGCAATCTCTGCTTGGCTCCCAAGTGTGGAT 3360
Db 3301 CAGCTTTGAACTCTGAGGCTCAAGCAATCTCTGCTTGGCTCCCAAGTGTGGAT 3360
QY 3361 ACAAGTACAGGCACTGATCTGAGCTGAGTGCATTTAGATTAATAATGATTTTAA 3420
Db 3361 ACAAGTACAGGCACTGATCTGAGCTGAGTGCATTTAGATTAATAATGATTTTAA 3420
QY 3421 TTTTAAAT 3480
Db 3421 TTTTAAAT 3480
QY 3481 TTTGCTGCTTAAAGTTTAAAGTCTTTCATTAAGCTTATGTAAGTGTGAGGAGACAT 3540
Db 3481 TTTGCTGCTTAAAGTTTAAAGTCTTTCATTAAGCTTATGTAAGTGTGAGGAGACAT 3540
QY 3541 TAAAGTAAACAGACAGCCAGGCTGTGTGCTCACGCTGTATATCCAGCACTCTGGAG 3600
Db 3541 TAAAGTAAACAGACAGCCAGGCTGTGTGCTCACGCTGTATATCCAGCACTCTGGAG 3600
QY 3601 GCTGAGGTGGTGTATGCTTGAAGCTGAGTGCATTAAGCAAGCTGTGCAACATGGCA 3660
Db 3601 GCTGAGGTGGTGTATGCTTGAAGCTGAGTGCATTAAGCAAGCTGTGCAACATGGCA 3660
QY 3661 AACCTGTTTCTATATACAAAATTTAGCCGGGATGTGGATGTGCTGTCCAGCT 3720
Db 3661 AACCTGTTTCTATATACAAAATTTAGCCGGGATGTGGATGTGCTGTCCAGCT 3720
QY 3721 ACTAGGGGCTGAGGACAGAGAAATCTTTGAGCCAGAGGTTCAAGGCTGACAGAGAG 3780
Db 3721 ACTAGGGGCTGAGGACAGAGAAATCTTTGAGCCAGAGGTTCAAGGCTGACAGAGAG 3780
QY 3781 TGCCTTGGGCTGACATCTCACGCTGGGTGACAGACCAAGCTTGTCTCAAAAAATTA 3840
Db 3781 TGCCTTGGGCTGACATCTCACGCTGGGTGACAGACCAAGCTTGTCTCAAAAAATTA 3840
QY 3841 GAAGAAAAATTTAAATTAATGAAACAACTACAAAGAGCTGTGCTCTAGATGAGTAC 3900
Db 3841 GAAGAAAAATTTAAATTAATGAAACAACTACAAAGAGCTGTGCTCTAGATGAGTAC 3900
QY 3901 TTAGTTAGGCTGATATTTTGTATTTAACTTTTAAGTCAAGGCTGTCACTGACATAC 3960
Db 3901 TTAGTTAGGCTGATATTTTGTATTTAACTTTTAAGTCAAGGCTGTCACTGACATAC 3960
QY 3961 ATTATTAATAATATCAATTCATATGATATATCAACAAGAGTGTGATGATATGTTAT 4020
Db 3961 ATTATTAATAATATCAATTCATATGATATATCAACAAGAGTGTGATGATATGTTAT 4020

QY 4021 AGTACCTTATTCACAAAACCCCAAGTAGAGCTATCCAAATATTCATCAAGTGA 4080
Db 4021 AGTACCTTATTCACAAAACCCCAAGTAGAGCTATCCAAATATTCATCAAGTGA 4080
QY 4081 CAATATAACAAATGTGCTATATTCATGCAATGAAATACACCTTGCACTCAAGGAG 4140
Db 4081 CAATATAACAAATGTGCTATATTCATGCAATGAAATACACCTTGCACTCAAGGAG 4140
QY 4141 AACTACTTGGGGATGAAATCCCAAGTCAATGACGCTAAATGAAAGGTCAAGATGAAG 4200
Db 4141 AACTACTTGGGGATGAAATCCCAAGTCAATGACGCTAAATGAAAGGTCAAGATGAAG 4200
QY 4201 AGGAGATTAATGTATGCTATACGAATTCAGAAATGAAAGTAACTATAGTTACAGAA 4260
Db 4201 AGGAGATTAATGTATGCTATACGAATTCAGAAATGAAAGTAACTATAGTTACAGAA 4260
QY 4261 GCATATCAGGCGAGGATAGAGCTCAACCTGTATATCCAGACCTTGAAGGCCAGT 4320
Db 4261 GCATATCAGGCGAGGATAGAGCTCAACCTGTATATCCAGACCTTGAAGGCCAGT 4320
QY 4321 GGGAAATGCTAGAACTCAGAGATTCAAGACCAAGCTGGGCAACACATGAAATCTCAT 4380
Db 4321 GGGAAATGCTAGAACTCAGAGATTCAAGACCAAGCTGGGCAACACATGAAATCTCAT 4380
QY 4381 TCTCCACAAAATGCGAAAAAAGAAAGCAATCAATGCTGTGTCTGTGGGAGGGGAG 4440
Db 4381 TCTCCACAAAATGCGAAAAAAGAAAGCAATCAATGCTGTGTGTGGGAGGGGAG 4440
QY 4441 GACTGCAAGAGGGAAGAACTCTGCTGGGGTGAAGGCTGATTCAGGTTCTGTATCT 4500
Db 4441 GACTGCAAGAGGGAAGAACTCTGCTGGGGTGAAGGCTGATTCAGGTTCTGTATCT 4500
QY 4501 GACTGTGTAGAGCTTTGGGGTGTATACATCCAAAAATATGTAATATATGATCTTA 4560
Db 4501 GACTGTGTAGAGCTTTGGGGTGTATACATCCAAAAATATGTAATATATGATCTTA 4560
QY 4561 AATGGGTGAGTTACTGTATGTAAATTAATTAATTAATTAATTAATTAATTAATTA 4620
Db 4561 AATGGGTGAGTTACTGTATGTAAATTAATTAATTAATTAATTAATTAATTAATTA 4620
QY 4621 AAAAGTTCAATCTCTGCGCAGCAACGTTATTAATTAATTAATTAATTAATTAAT 4680
Db 4621 AAAAGTTCAATCTCTGCGCAGCAACGTTATTAATTAATTAATTAATTAATTAAT 4680
QY 4681 AATTCCTGCACTTCTGCCCCGTTACATTAAGTGTGACAGTGTGCTCAAAATGGATA 4740
Db 4681 AATTCCTGCACTTCTGCCCCGTTACATTAAGTGTGACAGTGTGCTCAAAATGGATA 4740
QY 4741 AATGCAATTCCTGAAAAAGCTAGGGAACAAATTCAGGATCACTTGTCTTATATCA 4800
Db 4741 AATGCAATTCCTGAAAAAGCTAGGGAACAAATTCAGGATCACTTGTCTTATATCA 4800
QY 4801 CCAAGCTGTACAGCTTGTGTGTCTGTCTGCAAGTGTGCAATGAGGAGCTTGTATTA 4860
Db 4801 CCAAGCTGTACAGCTTGTGTGTGTCTGTCTGCAAGTGTGCAATGAGGAGCTTGTATTA 4860
QY 4861 GGAATCTGGGTTACAGAGTATTCACAAATGCAATCAATTAATGAGCTTATGATATG 4920
Db 4861 GGAATCTGGGTTACAGAGTATTCACAAATGCAATTAATTAATGAGCTTATGATATG 4920
QY 4921 CAAGACATGTGCTAGAGCCAGAAAAACAAAGAGAGGAAATCATATATATGAGGA 4980
Db 4921 CAAGACATGTGCTAGAGCCAGAAAAACAAAGAGAGGAAATCATATATATGAGGA 4980
QY 4981 ACAACATAGCAAGATATTTAGATCATTTTACTAGTTAAAAAGCAGAGATCAAAAT 5040
Db 4981 ACAACATAGCAAGATATTTAGATCATTTTACTAGTTAAAAAGCAGAGATCAAAAT 5040
QY 5041 CACACATGCAATATATATATCAAAATCATATATATATATATATATATATATATAT 5100
Db 5041 CACACATGCAATATATATATCAAAATCATATATATATATATATATATATATATATAT 5100

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OY 5101 AATAAACAAGAAATCTTTAAGAGTGTGATTTAGACACTAAGCTTAATTATTATT 5160
DB 5101 AATAAACAAGAAATCTTTAAGAGTGTGATTTAGACACTAAGCTTAATTATTATT 5160
OY 5161 AGACACTATGATATTTAGATTTTAAATCTTTAATTATTAAATTTAGAGCTCTCC 5220
DB 5161 AGACACTATGATATTTAGATTTTAAATCTTTAATTATTAAATTTAGAGCTCTCC 5220
OY 5221 ATTTTCCATGATATTTCAAGTTTGAACAATGATCAAGTATTAATCTTTCTTTT 5280
DB 5221 ATTTTCCATGATATTTCAAGTTTGAACAATGATCAAGTATTAATCTTTCTTTT 5280
OY 5281 TTTTCTTTTGTGAGATGAGTTTGTCTTTGTTCCATGCTGAGTGAATGAGCAG 5340
DB 5281 TTTTCTTTTGTGAGATGAGTTTGTCTTTGTTCCATGCTGAGTGAATGAGCAG 5340
OY 5341 AYCATTAGTCACTGCAACCTCCACTCTGCTGCTTCAAGCAAAAGCTGTGAGCTCC 5400
DB 5341 AYCATTAGTCACTGCAACCTCCACTCTGCTGCTTCAAGCAAAAGCTGTGAGCTCC 5400
OY 5401 CGGATGATGAGATTTACAGGCGCCCAACACCACTGGCTAATGTTGATTTTATGA 5460
DB 5401 CGGATGATGAGATTTACAGGCGCCCAACACCACTGGCTAATGTTGATTTTATGA 5460
OY 5461 GAGATGGGGTTTCAACATGTTGGCCAGGCTGCTCAAACTCTGAGCTCAGAG 5514
DB 5461 GAGATGGGGTTTCAACATGTTGGCCAGGCTGCTCAAACTCTGAGCTCAGAG 5514

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RESULT 2
US-09-966-880A-15/c
Sequence 15, Application US/09966880A
GENERAL INFORMATION:

```

APPLICANT: Honjo, Tasuku
APPLICANT: Muramatsu, Masamichi
TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
FILE REFERENCE: 06501-088001
CURRENT APPLICATION NUMBER: US/09/966,880A
PRIOR FILING DATE: 2001-09-28
PRIOR APPLICATION NUMBER: PCT/JP00/01918
PRIOR FILING DATE: 2000-03-28
PRIOR APPLICATION NUMBER: JP 11-371382
PRIOR FILING DATE: 1999-12-27
PRIOR APPLICATION NUMBER: JP 11-178999
PRIOR FILING DATE: 1999-06-24
PRIOR APPLICATION NUMBER: JP 11-87192
PRIOR FILING DATE: 1999-03-29
NUMBER OF SEQ ID NOS: 36
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 15
LENGTH: 2172
TYPE: DNA
ORGANISM: Homo sapiens
US-09-966-880A-15

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Query Match 3.2%; Score 178.6; DB 1; Length 2172;
Best Local Similarity 83.1%; Pred. No. 1.1;
Matches 202; Conservative 1; Mismatches 40; Indels 0; Gaps 0;

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OY 5270 TTTTCTTTTGTGAGATGAGTTTGTCTGTTGCTGCTGCTGAGT 5329
DB 5270 TTTTCTTTTGTGAGATGAGTTTGTCTGTTGCTGCTGCTGAGT 5329
OY 5330 GGAATGGAGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 5389
DB 5330 GGAATGGAGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 5389
OY 5390 CCTAGAGCTCCCGGATGATGATGATGATGATGATGATGATGATGATGATGAT 5449
DB 5390 CCTAGAGCTCCCGGATGATGATGATGATGATGATGATGATGATGATGATGAT 5449
OY 5450 TATTTTGTAGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 5509
DB 5450 TATTTTGTAGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 5509

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DB 1334 CATTTGAGTACAGAGGGGTTTGCATGTTGGCCAGGCTGCTCAAACTCCTGACCA 1275
OY 5510 CAG 5512
DB 1274 CAG 1272

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RESULT 3
US-09-966-880A-10/c
Sequence 10, Application US/09966880A
GENERAL INFORMATION:

```

APPLICANT: Honjo, Tasuku
APPLICANT: Muramatsu, Masamichi
TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
FILE REFERENCE: 06501-088001
CURRENT APPLICATION NUMBER: US/09/966,880A
PRIOR FILING DATE: 2001-09-28
PRIOR APPLICATION NUMBER: PCT/JP00/01918
PRIOR FILING DATE: 2000-03-28
PRIOR APPLICATION NUMBER: JP 11-371382
PRIOR FILING DATE: 1999-12-27
PRIOR APPLICATION NUMBER: JP 11-178999
PRIOR FILING DATE: 1999-06-24
PRIOR APPLICATION NUMBER: JP 11-87192
PRIOR FILING DATE: 1999-03-29
NUMBER OF SEQ ID NOS: 36
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 10
LENGTH: 6564
TYPE: DNA
ORGANISM: Homo sapiens
US-09-966-880A-10

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Query Match 3.2%; Score 178.6; DB 1; Length 6564;
Best Local Similarity 83.1%; Pred. No. 1.8;
Matches 202; Conservative 1; Mismatches 40; Indels 0; Gaps 0;

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OY 5270 TTTTCTTTTGTGAGATGAGTTTGTCTGTTGCTGCTGCTGAGT 5329
DB 5270 TTTTCTTTTGTGAGATGAGTTTGTCTGTTGCTGCTGCTGAGT 5329
OY 5330 GGAATGGAGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 5389
DB 5330 GGAATGGAGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 5389
OY 5390 CCTAGAGCTCCCGGATGATGATGATGATGATGATGATGATGATGATGATGAT 5449
DB 5390 CCTAGAGCTCCCGGATGATGATGATGATGATGATGATGATGATGATGATGAT 5449
OY 5450 TATTTTGTAGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 5509
DB 5450 TATTTTGTAGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 5509

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; PRIOR FILING DATE: 1999-06-24
 ; APPLICATION NUMBER: JP 11-87192
 ; PRIOR FILING DATE: 1999-03-29
 ; NUMBER OF SEQ ID NOS: 36
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 15
 ; LENGTH: 2172
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 ; US-09-966-880A-15

Query Match 3.2%; Score 174.2; DB 1; Length 2172;
 Best Local Similarity 74.8%; Pred. No. 1.3;
 Matches 255; Conservative 0; Mismatches 78; Indels 8; Gaps 3;

QY 3542 AAAGTAAACAGACAGCAGGCTGATGCTACGCTGTAATCCAGACCTTGAGAG 3601
 DB 1194 AAAGAAAGAGAGAGGCGCGGCTGATGCTACGCTGTAATCCAGACCTTGAGAG 1253
 QY 3602 CTGAGGTGCTGATGCTGCTTGAAGCTTGAAGTCAAGACCAAGCTGAGCAATGGCAA 3661
 DB 1254 CCGAGCGCGCGGATCACTGCTGCTAGAGATTGAGACCAAGCTGCGCAATGGCAA 1313
 QY 3662 ACCCTGTTCT-----ATTAACAAAATTAGCCGCGCATGCTGAGCATGCTGCTGCTC 3715
 DB 1314 ACCCGCTGCTACTCAAAATGCAAAATTAGCCAGCGCTGATGAGCAGCACTGTAATCC 1373
 QY 3716 CAGCTACTAGG-GGCTGAGGCGAGGAATCTTGAAGCCAGAGAGTCAAGGCTGCACT 3774
 DB 1374 CAGCTACTGAGGAGGCTGAGGCGAGGAATCGCTTAAGCCAGAGAGTGAAGTTCAGT 1433
 QY 3775 GAGCAGGCTGAGGCGACCTGCACTCCAGCCTGAGTGAAGGA-CCAGACCTTGCTCAAA 3833
 DB 1434 AAGCTGATCGTCCGCTTGCACTCCAGCCTGAGCGCAAGAGCAAGACTTGTCTCAGA 1493
 QY 3834 AAATTAAGAGAAATTAATAATTAATGAACCACTACA 3874
 DB 1494 AAAAAAAAAAAAAAAAAAGAGAGAGAGAGAAAGAACATA 1534

RESULT 5
 ; US-09-966-880A-10
 ; Sequence 10, Application US/09966880A
 ; GENERAL INFORMATION:
 ; APPLICANT: Honjo, Tasuku
 ; APPLICANT: Muramatsu, Masamichi
 ; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
 ; FILE REFERENCE: 06501-088001
 ; CURRENT APPLICATION NUMBER: US/09/966,880A
 ; CURRENT FILING DATE: 2001-09-28
 ; PRIOR APPLICATION NUMBER: PCT/JP00/01918
 ; PRIOR FILING DATE: 2000-03-28
 ; PRIOR APPLICATION NUMBER: JP 11-371382
 ; PRIOR FILING DATE: 1999-12-27
 ; PRIOR APPLICATION NUMBER: JP 11-178999
 ; PRIOR FILING DATE: 1999-06-24
 ; PRIOR APPLICATION NUMBER: JP 11-87192
 ; NUMBER OF SEQ ID NOS: 36
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 10
 ; LENGTH: 6564
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 ; US-09-966-880A-10

Query Match 3.2%; Score 174.2; DB 1; Length 6564;
 Best Local Similarity 74.8%; Pred. No. 2;
 Matches 255; Conservative 0; Mismatches 78; Indels 8; Gaps 3;

QY 3542 AAAGTAAACAGACAGCAGGCTGATGCTACGCTGTAATCCAGACCTTGAGAG 3601
 DB 4934 AAAGAAAGAGAGGCGCGGCTGATGCTACGCTGTAATCCAGACCTTGAGAG 4993

QY 3602 CTGAGGTGCTGATGCTGCTTGAAGCTTGAAGTCAAGACCAAGCTGAGCAATGGCAA 3661
 DB 4994 CCGAGCGCGGCGATCACTGCTGCTAGAGATTGAGACCAAGCTGCGCAATGGCAA 5053
 QY 3662 ACCCTGTTCT-----ATTAACAAAATTAGCCGCGCATGCTGAGCATGCTGCTGCTC 3715
 DB 5054 ACCCGCTGCTACTCAAAATGCAAAATTAGCCAGGCTGATGAGGCACTGTAATCC 5113
 QY 3716 CAGCTACTAGG-GGCTGAGGCGAGGAATCTTGAAGCCAGAGGTCAGGCTGACT 3774
 DB 5114 CAGCTACTGAGGAGCTGAGGCGAGGAATGCTTGAACCAAGAGTGAAGTTCAGT 5173
 QY 3775 GAGCAGGCTTGAAGCGCACTGCACTCCAGCTGAGTGAAGGA-CCAGACCTTGCTCAAA 3833
 DB 5174 AAGCTGATCGTCCGCTTGCACTCCAGCCTGAGCGCAAGAGCAAGACTTGTCTCAGA 5233
 QY 3834 AAATTAAGAGAAATTAATAATTAATGAACCACTACA 3874
 DB 5234 AAAAAAAAAAAAAAAAAAGAGAGAGAGAGAAAGAACATA 5274

RESULT 6
 ; US-09-966-880A-9/c
 ; Sequence 9, Application US/09966880A
 ; GENERAL INFORMATION:
 ; APPLICANT: Honjo, Tasuku
 ; APPLICANT: Muramatsu, Masamichi
 ; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
 ; FILE REFERENCE: 06501-088001
 ; CURRENT APPLICATION NUMBER: US/09/966,880A
 ; CURRENT FILING DATE: 2001-09-28
 ; PRIOR APPLICATION NUMBER: PCT/JP00/01918
 ; PRIOR FILING DATE: 2000-03-28
 ; PRIOR APPLICATION NUMBER: JP 11-371382
 ; PRIOR FILING DATE: 1999-12-27
 ; PRIOR APPLICATION NUMBER: JP 11-178999
 ; PRIOR FILING DATE: 1999-06-24
 ; PRIOR APPLICATION NUMBER: JP 11-87192
 ; NUMBER OF SEQ ID NOS: 36
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 9
 ; LENGTH: 5514
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 ; FEATURE:
 ; NAME/KEY: Intron
 ; LOCATION: (1)...(1031)
 ; FEATURE:
 ; NAME/KEY: exon
 ; LOCATION: (1032)...(1118)
 ; FEATURE:
 ; NAME/KEY: Intron
 ; LOCATION: (1119)...(5514)
 ; US-09-966-880A-9

Query Match 2.0%; Score 109.3; DB 1; Length 5514;
 Best Local Similarity 69.0%; Pred. No. 4.4;
 Matches 176; Conservative 0; Mismatches 72; Indels 7; Gaps 2;

QY 3621 TGAGCCTGAGATTCAAGACCAAGCTGAGCAATGGCAAAACCTGTTCTATA----- 3675
 DB 5511 TGAAGTCAGGAGTTTGAACCAAGCTGAGCAATGGTAACCCATCTCTATAAAA 5452
 QY 3676 -ACAAAATTAGCGGCGCATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 3733
 DB 5451 TACAAATTAAGCGAATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 5392
 QY 3734 GGCAGAGATCTTGGAGCCCAAGAGGTCAAGGCTGAGCAAGTGTGCGCACT 3793
 DB 5391 GGCAGACTTGTCTTAACCCAGAGAGTGAAGGTTGAGCTATGCTATGCTAT 5332

QY	Db	QY	Db
3794	GCAGCTCCAGCGCTGGGTGACAGACCCAGACCTTGCTCAAAAAAATTAAGAACAAAAATTAA	531	CCAGCTCCAGCATGGGCAACAGACCAAAACCTCCATCTCAAAAAAAAAAAAAAAAAAAAAA
3854	AAATTAATGCATAACA	5271	AAATTAATGCATAACA
5271	AAAGAAAAAGTAATA	5257	AAAGAAAAAGTAATA

```

RESULT 7
US-09-966-880A-11
; Sequence 11, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Honjo, Tasuku
; APPLICANT: Muramatsu, Masamichi
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 06501-088001
; CURRENT APPLICATION NUMBER: US/09/966,880A
; CURRENT FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: PCT/J500/01918
; PRIOR FILING DATE: 2000-03-28
; PRIOR APPLICATION NUMBER: JP 11-371382
; PRIOR FILING DATE: 1999-12-27
; PRIOR APPLICATION NUMBER: JP 11-178999
; PRIOR FILING DATE: 1999-06-24
; PRIOR APPLICATION NUMBER: JP 11-87192
; PRIOR FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11
; LENGTH: 87
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-966-880A-11

```

	Query Match	Best Local Similarity	Matches	Score 87;	DB 1;	Length 87;
				1.63;		
				100.0%;		
				Pred. No. 4;		
				Conservative 0;	Mismatches 0;	Gaps 0;
QY	1032	AGAGACCATCATTAATGAGTAGAGATTTTCTGCTGAGACTTGAGAGGAGCAGA	1091			
Db	1	AGAGACCATATTAAATTGAGTAGAGATTTTCTGCTGAGACTTGAGAGGAGCAGA	60			
QY	1092	AGACACTCTGAGACCACTATGACAG	1118			
Db	61	AGACACTCTGAGACCACTATGACAG	87			

```

RESULT 8
US-09-966-880A-12/C
/ Sequence 12, Application US/09966880A
/ GENERAL INFORMATION:
/ APPLICANT: Honjo, Tasuku
/ APPLICANT: Muramatsu, Masamichi
/ TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
/ FILE REFERENCE: 06501-088001
/ CURRENT APPLICATION NUMBER: US/09/966, 880A
/ CURRENT FILING DATE: 2001-09-28
/ PRIOR APPLICATION NUMBER: PCT/JPO00/01918
/ PRIOR FILING DATE: 2000-03-28
/ PRIOR APPLICATION NUMBER: JP 11-371382
/ PRIOR FILING DATE: 1999-12-27
/ PRIOR APPLICATION NUMBER: JP 11-178999
/ PRIOR FILING DATE: 1999-06-24
/ PRIOR APPLICATION NUMBER: JP 11-87192
/ PRIOR FILING DATE: 1999-03-29
/ NUMBER OF SEQ ID NOS: 36
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 12
/ LENGTH: 148
/ TYPE: DNA
/ ORGANISM: Homo sapiens
US-09-966-880A-12

```

```

Query Match      0.3%; Score 18.3; DB 1; Length 148;
Best Local Similarity 64.6%; Pred. No. 55;
Matches 42; Conservative 0; Mismatches 22; Indels 1; Gaps 1;

QY 2900 AACCAAGTCATGTAAAAAGATGTAGATTCCTCTGCGCTTTCATCTACACGCCAGG 2959
      ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 134 AACCAAGTCACAGGAAAGATGTAGACTGTACGCGCTTCTCA-CTACGTAGACACAGG 76
      ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

QY 2960 AGGGT 2964
      ||||
Db 75 TAGGT 71

```

```

RESULT 9
US-09-966-880A-13/c
; Sequence 13. Application US/09966880A
GENERAL INFORMATION:
APPLICANT: Homjo, Tasaku
APPLICANT: Muramatsu, Masamichi
TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
FILE REFERENCE: 06501-088001
CURRENT APPLICATION NUMBER: US/09/966,880A
CURRENT FILING DATE: 2001-09-28
PRIOR APPLICATION NUMBER: PCT/JP00/01918
PRIOR FILING DATE: 2000-03-28
PRIOR APPLICATION NUMBER: JP 11-371382
PRIOR FILING DATE: 1999-12-27
PRIOR APPLICATION NUMBER: JP 11-178999
PRIOR FILING DATE: 1999-06-24
PRIOR APPLICATION NUMBER: JP 11-87192
PRIOR FILING DATE: 1999-03-29
NUMBER OF SEQ. ID NOS: 36
SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13
; LENGTH: 271
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-966-880A-13

```

	Query Match	Best Local Similarity	0.3%;	Score 17.6;	DB 1;	Length 271;
	Matches	38;	Conservative	0;	Mismatches	34;
					Indels	0;
					Gaps	0;
Qy	937	GGGGTACCTGATGGGGGTGATGCTGTACGGGAGACCCAAAAGGCGAAGCTCAATTT				996
Db	102	GGGGCTCAGAGGTGAACCAAGTACGCCGTACAGCGGCCAGGGTCTAGTCCAGTC				43
Qy	997	GAATGTGAAGG 1008				
Db	42	CGAGATTACG 31				

```

? RESULT 10
? US-09-966-880A-14
? Sequence 14. Application US//09966880A
? GENERAL INFORMATION:
? APPLICANT: Honjo, Taseuku
? APPLICANT: Muramatsu, Masamichi
? TITLE OF INVENTION: NOVEL CITIDINE DEAMINASE
? FILE REFERENCE: 06501-088001
? CURRENT APPLICATION NUMBER: US//09/966, 880A
? CURRENT FILING DATE: 2001-09-28
? PRIOR APPLICATION NUMBER: PCT/JP00/01918
? PRIOR FILING DATE: 2000-03-28
? PRIOR APPLICATION NUMBER: JP 11-371382
? PRIOR FILING DATE: 1999-12-27
? PRIOR APPLICATION NUMBER: JP 11-178999
? PRIOR FILING DATE: 1999-06-24
? PRIOR APPLICATION NUMBER: JP 11-87192
? PRIOR FILING DATE: 1999-03-29
? NUMBER OF SEQ ID NOS: 36
? SOFTWARE: FastSeq for Windows Version 4.0

```


SEQ ID NO 14
 LENGTH: 116
 TYPE: DNA
 ORGANISM: Homo sapiens
 US-09-966-880A-14

Query Match 0.3%; Score 16.2; DB 1; Length 116;
 Best Local Similarity 52.2%; Pred. No. 53;
 Matches 36; Conservative 0; Mismatches 33; Indels 0; Gaps 0;

QY 4437 GAAGAGCTCAAGAGGAGAGAGCTCTGCTGGGCTGAGGGCTGGATTCAGTTCTGTA 4496
 DB 30 GAAACACGAAAGAACTTCAAGCCTGGAGAGGCTGCATGAAATTCAGTTCTCTC 89

QY 4497 TCCTGACTG 4505
 DB 90 TCCAGACAG 98

RESULT 11
 US-09-966-880A-13
 Sequence 13, Application US/09966880A
 GENERAL INFORMATION:
 APPLICANT: Honjo, Tasuku
 APPLICANT: Muramatsu, Masamichi
 TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
 FILE REFERENCE: 06501-088001
 CURRENT APPLICATION NUMBER: US/09/966,880A
 PRIOR FILING DATE: 2001-09-28
 PRIOR APPLICATION NUMBER: PCT/JP00/01918
 PRIOR FILING DATE: 2000-03-28
 PRIOR APPLICATION NUMBER: JP 11-371382
 PRIOR FILING DATE: 1999-12-27
 PRIOR APPLICATION NUMBER: JP 11-178999
 PRIOR FILING DATE: 1999-06-24
 PRIOR APPLICATION NUMBER: JP 11-87192
 PRIOR FILING DATE: 1999-03-29
 NUMBER OF SEQ ID NOS: 36
 SOFTWARE: FastSeq for Windows Version 4.0
 SEQ ID NO 13
 LENGTH: 271
 TYPE: DNA
 ORGANISM: Homo sapiens
 US-09-966-880A-13

Query Match 0.3%; Score 16; DB 1; Length 271;
 Best Local Similarity 55.4%; Pred. No. 62;
 Matches 31; Conservative 0; Mismatches 25; Indels 0; Gaps 0;

QY 2023 CAGCCGAGCTGTCTCTTAAGTCTGCGCCCAAGCATCTCTGCTGGGCTCTT 2078
 DB 36 CATCTGAGCTGGAGCACTTAAGCCTTGCGGCTGTCTACGCGCTCACTGGTTCACTT 91

RESULT 12
 US-09-966-880A-12
 Sequence 12, Application US/09966880A
 GENERAL INFORMATION:
 APPLICANT: Honjo, Tasuku
 APPLICANT: Muramatsu, Masamichi
 TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
 FILE REFERENCE: 06501-088001
 CURRENT APPLICATION NUMBER: US/09/966,880A
 PRIOR FILING DATE: 2001-09-28
 PRIOR APPLICATION NUMBER: PCT/JP00/01918
 PRIOR FILING DATE: 2000-03-28
 PRIOR APPLICATION NUMBER: JP 11-371382
 PRIOR FILING DATE: 1999-12-27
 PRIOR APPLICATION NUMBER: JP 11-178999
 PRIOR FILING DATE: 1999-06-24
 PRIOR APPLICATION NUMBER: JP 11-87192
 PRIOR FILING DATE: 1999-03-29
 NUMBER OF SEQ ID NOS: 36

SOFTWARE: FastSeq for Windows Version 4.0
 SEQ ID NO 12
 LENGTH: 148
 TYPE: DNA
 ORGANISM: Homo sapiens
 US-09-966-880A-12

Query Match 0.3%; Score 15.4; DB 1; Length 148;
 Best Local Similarity 76.0%; Pred. No. 59;
 Matches 19; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 4349 AGACCACTTGCGCAACACAGTGA 4373
 DB 69 AGACTTACTGTGTCTAGTAGTGA 93

RESULT 13
 US-09-966-880A-14/c
 Sequence 14, Application US/09966880A
 GENERAL INFORMATION:
 APPLICANT: Honjo, Tasuku
 APPLICANT: Muramatsu, Masamichi
 TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
 FILE REFERENCE: 06501-088001
 CURRENT APPLICATION NUMBER: US/09/966,880A
 PRIOR FILING DATE: 2001-09-28
 PRIOR APPLICATION NUMBER: PCT/JP00/01918
 PRIOR FILING DATE: 2000-03-28
 PRIOR APPLICATION NUMBER: JP 11-371382
 PRIOR FILING DATE: 1999-12-27
 PRIOR APPLICATION NUMBER: JP 11-178999
 PRIOR FILING DATE: 1999-06-24
 PRIOR APPLICATION NUMBER: JP 11-87192
 PRIOR FILING DATE: 1999-03-29
 NUMBER OF SEQ ID NOS: 36
 SOFTWARE: FastSeq for Windows Version 4.0
 SEQ ID NO 14
 LENGTH: 116
 TYPE: DNA
 ORGANISM: Homo sapiens
 US-09-966-880A-14

Query Match 0.3%; Score 14.8; DB 1; Length 116;
 Best Local Similarity 59.5%; Pred. No. 55;
 Matches 25; Conservative 0; Mismatches 17; Indels 0; Gaps 0;

QY 662 AAGCTATTAAATGCTTTAAGTATTTACATAAATTAC 703
 DB 57 AGCTTTGAAGTCTTTCTGTGTTTCTACAAAGTATTCC 16

RESULT 14
 US-09-966-880A-11/c
 Sequence 11, Application US/09966880A
 GENERAL INFORMATION:
 APPLICANT: Honjo, Tasuku
 APPLICANT: Muramatsu, Masamichi
 TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
 FILE REFERENCE: 06501-088001
 CURRENT APPLICATION NUMBER: US/09/966,880A
 PRIOR FILING DATE: 2001-09-28
 PRIOR APPLICATION NUMBER: PCT/JP00/01918
 PRIOR FILING DATE: 2000-03-28
 PRIOR APPLICATION NUMBER: JP 11-371382
 PRIOR FILING DATE: 1999-12-27
 PRIOR APPLICATION NUMBER: JP 11-178999
 PRIOR FILING DATE: 1999-06-24
 PRIOR APPLICATION NUMBER: JP 11-87192
 PRIOR FILING DATE: 1999-03-29
 NUMBER OF SEQ ID NOS: 36
 SOFTWARE: FastSeq for Windows Version 4.0
 SEQ ID NO 11
 LENGTH: 87

ALIGNMENTS

RESULT 1
US-09-966-880A-10

APPLICANT: Honjo, Tasuku
APPLICANT: Muramatsu, Masamichi

CURRENT APPLICATION NUMBER: US/09/966,880A
CURRENT FILING DATE: 2001-09-28

PRIOR APPLICATION NUMBER: JP 11-371382
PRIOR FILING DATE: 1999-12-27

; PRIOR FILING DATE: 1999-06-24
 ; PRIOR APPLICATION NUMBER: JP 11-87192
 ; PRIOR FILING DATE: 1999-03-26

```
; SOFTWARE: FastSeq for Windows Version 4.0
```

```

; LENGTH: 6564
; TYPE: DNA
; ORGANISM: Homo sapiens

```

Query Match	Score	DB 1	Length
100.0%;	6564;		6564;
Best Local Similarity	100.0%;	Pred. No. 1.2e-44;	

Db
1 GGGGGCCCTTATCCCACTACTCAGAGGCTAGAGCAGAGAGATCCCGGAGAGCTGGCA 60

61 GATCTGCGAGCCGAGGAGTTGAGGCTACAGTAAGCCAAAGATCATGCGAGTATACCTTC 120

Db 61 GATCTGCTGAGGCTTGGAGGTTGAGGCTACAGTAAGCCAGATCATGCGCAGTATPCTTC 120

Db 121 AGCTGGGCGCAAAAGTGAGACCGTAAACAAAAAATTTTAAAAAAGAAATTTAG 180

QY 181 ATCAAGATCCAACTGTAAAAAGTGGCCCTAAAACACCAATTAAAAAGCTTTGAGTTATTC 240

241 TGACGGCAGAGAGAAACCATCGGGGGTTCAGCATGGGAAATGGCATGTGCACCTGGT 300

Db 241 TCGAGGCAAGAGAACCATCGAGGGGCTTCAGCATGGGAATGGCATGGTGCACCTGGT 300

Db 301 TTTTGTAGATCAATGGTGGTGCACGTGTGGGAATGTTATTTTGGAGGACTGAGGACG 360

Qy 361 ACAGACCGGTTAAAAGCCACACACAACATTAAGAGAGAAAGAGATGAGGCTTTGACCG 420

Db 361 ACACACCGGTTAAAAGCCACAGCACAAACAGATTAAGAGAGAAAGAGATGAGGCTTTGACCG 420

Qy 421 AAGAGAGAAAGAGAAACAGGGAAGTGCAAATTCAAGAAATATTGGGGGCTTTGAATCA 480

Db 421 AAGAGAGAAAGAGAAACAGGGAAGTGCAAATTCAAGAAATATTGGGGGCTTTGAATCA 480

Qy 481 ACACATTAGATGATTAATTAAATATGAGACTGAGAGATTAAGAAATGACTCAAGATGG 540

Db 481 ACACATTAGATGATTAATTAAATATGAGACTGAGAGATTAAGAAATGAGTCAAGATGG 540

Qy 541 TTCCAGGCTGTAAGGCTGCTTAAGTGAAGTGGCAAAGTCCGAGAGAGTGCAGTTTACGA 600

Db 541 TTCACGCTGCTAGGCTGCTTACTGAGGTGGCAAAAGTCGGAGAGATGCGACTTTAGGA 600
 Qy 601 CAGGGGGGAGTTGAGGAATATGTTTGATCATTTTGAGTTGAGTACAGTTGGAC 660
 Db 601 CAGGGGGGAGTTGAGGAATATGTTTGATCATTTTGAGTTGAGTACAGTTGGAC 660
 Qy 661 TTAGGTAAAGCTGAGGGGAAATCTGAATATACATATATGGAAGTGAAGCAAGTTTA 720
 Db 661 TTAGGTAAAGCTGAGGGGAAATCTGAATATACATATATGGAAGTGAAGCAAGTTTA 720
 Qy 721 TTTTATTTTTTGTGCTTTCTGTTTGTGTAAGAACAAATTTAATTGTAAATCCAAATC 780
 Db 721 TTTTATTTTTTGTGCTTTCTGTTTGTGTAAGAACAAATTTAATTGTAAATCCAAATC 780
 Qy 781 AGCATCTGAAAGACGTGGCAGAGAGTGAATCTTTGGGTAAAGGCTTTGGGTCCCTTG 840
 Db 781 AGCATCTGAAAGACGTGGCAGAGAGTGAATCTTTGGGTAAAGGCTTTGGGTCCCTTG 840
 Qy 841 ATGAGTATCTCTCAATTTGGCTTAAATATTAAGCAGGAAAGAGTTTATGATGCCA 900
 Db 841 ATGAGTATCTCTCAATTTGGCTTAAATATTAAGCAGGAAAGAGTTTATGATGCCA 900
 Qy 901 GGCTCAGCAGGCTCAGAGAGGCTCAGGAGCAGCAGAGAGTCAAGAGATCTTCTT 960
 Db 901 GGCTCAGCAGGCTCAGAGAGGCTCAGGAGCAGCAGAGAGTCAAGAGATCTTCTT 960
 Qy 961 GGTTAGGCCCAAGTATGATCTTCTTAAAGCTGAAAGAAATCCAGAGTGAACAGATT 1020
 Db 961 GGTTAGGCCCAAGTATGATCTTCTTAAAGCTGAAAGAAATCCAGAGTGAACAGATT 1020
 Qy 1021 ATAACTGTACTCTGCAATTTCTCTCTCTCTCAACCAAGCTCTTATGATGACCG 1080
 Db 1021 ATAACTGTACTCTGCAATTTCTCTCTCTCTCAACCAAGCTCTTATGATGACCG 1080
 Qy 1081 AGAAGTTCCTTACCAATTCAAAATGTCCGCTGGGTAAAGGCTGGCGTGAAGCTTAC 1140
 Db 1081 AGAAGTTCCTTACCAATTCAAAATGTCCGCTGGGTAAAGGCTGGCGTGAAGCTTAC 1140
 Qy 1141 CTGTGCTACGTAGTAAGAGGCTGACAGTCTACATCTTTTCACTGGAATTTGAT 1200
 Db 1141 CTGTGCTACGTAGTAAGAGGCTGACAGTCTACATCTTTTCACTGGAATTTGAT 1200
 Qy 1201 CTTCGCAATTAAGTATCAATTAAGTCACTTTGACAGAGTATTAAGTCACTGGAG 1260
 Db 1201 CTTCGCAATTAAGTATCAATTAAGTCACTTTGACAGAGTATTAAGTCACTGGAG 1260
 Qy 1261 TGCTTTAGAGCACTGCTGATGATTAATCTTCATCTCTTTTGGATTTGGTCTCT 1320
 Db 1261 TGCTTTAGAGCACTGCTGATGATTAATCTTCATCTCTTTTGGATTTGGTCTCT 1320
 Qy 1321 ATCAATTCCTCAATCTTTTATTTTCTTTTCTTTTCAATGTCATGACCATATTGA 1380
 Db 1321 ATCAATTCCTCAATCTTTTATTTTCTTTTCTTTTCAATGTCATGACCATATTGA 1380
 Qy 1381 CATGGCCCAAAATATGATTAATCTCTCCAGTAATGCTGGGCACTTAAATACCACT 1440
 Db 1381 CATGGCCCAAAATATGATTAATCTCTCCAGTAATGCTGGGCACTTAAATACCACT 1440
 Qy 1441 CCTTCCTCAGTGCAGAGACACAGTCTCCCAACTGTTTACCAAGCTTCTCTGACATCT 1500
 Db 1441 CCTTCCTCAGTGCAGAGACACAGTCTCCCAACTGTTTACCAAGCTTCTCTGACATCT 1500
 Qy 1501 GAATTCCTTTGAGATTAATTAAGCTAAAGATTTTATATGAGAGATTTATACAGCT 1560
 Db 1501 GAATTCCTTTGAGATTAATTAAGCTAAAGATTTTATATGAGAGATTTATACAGCT 1560
 Qy 1561 TGTCACACCAAAATTTTAAATGTAAGAAACAAATTTGCTTTAGCAATTTTGAATTT 1620
 Db 1561 TGTCACACCAAAATTTTAAATGTAAGAAACAAATTTGCTTTAGCAATTTTGAATTT 1620
 Qy 1621 AAGGAAGAAATTTGGGAAAAATTTAAACGCTGTTCAATCTGTTTCCAAATGATTT 1680
 Db 1621 AAGGAAGAAATTTGGGAAAAATTTAAACGCTGTTCAATCTGTTTCCAAATGATTT 1680

Qy 1681 TTTTCCCTCTACTGACATGGGTCGTAGGSCAGTGAATCATTTCAACATGATGATCCCA 1740
 Db 1681 TTTTCCCTCTACTGACATGGGTCGTAGGSCAGTGAATCATTTCAACATGATGATCCCA 1740
 Qy 1741 GAAACTCAGAGAGGCTCGGCTGATGATTAATTAATTAATGATCTTCCGCTACCGAGAG 1800
 Db 1741 GAAACTCAGAGAGGCTCGGCTGATGATTAATTAATTAATGATCTTCCGCTACCGAGAG 1800
 Qy 1801 AATTACATTTCCAGAGACTTCTTCAACAAATTCAGATGGGTTTACATTAATCTTGCC 1860
 Db 1801 AATTACATTTCCAGAGACTTCTTCAACAAATTCAGATGGGTTTACATTAATCTTGCC 1860
 Qy 1861 CATGGTATCTCTCTCTCTCTCAACAGCTGTGACAGTCTGGGCTTGGTGAATCAGAGA 1920
 Db 1861 CATGGTATCTCTCTCTCTCTCAACAGCTGTGACAGTCTGGGCTTGGTGAATCAGAGA 1920
 Qy 1921 AGCATCCGTGGGCTGAGAGTCAATGCTGAGCTCGTGTGTTGATGATTAATTAACATGC 1980
 Db 1921 AGCATCCGTGGGCTGAGAGTCAATGCTGAGCTCGTGTGTTGATGATTAATTAACATGC 1980
 Qy 1981 AATTTCTTGTCTACATTTGATTAATTAATCAATCCCAATCTCTCTTATGATGACAT 2040
 Db 1981 AATTTCTTGTCTACATTTGATTAATTAATCAATCCCAATCTCTCTTATGATGACAT 2040
 Qy 2041 GACACATTTCTATTTCAGAGGCTTTGATTTATCAAGCATTTTCACTTCACTTCAATGC 2100
 Db 2041 GACACATTTCTATTTCAGAGGCTTTGATTTATCAAGCATTTTCACTTCACTTCAATGC 2100
 Qy 2101 AGTGCCTATTAATCTCTCTCTCAAAATCCCAATGCTGCTTTACCAAAATCTATCCCT 2160
 Db 2101 AGTGCCTATTAATCTCTCTCTCTCAAAATCCCAATGCTGCTTTACCAAAATCTATCCCT 2160
 Qy 2161 TTTCAATCTCTCCCAATGATGCTCTCAATACTGCTGCTCCCACTAGTGTCCAGGA 2220
 Db 2161 TTTCAATCTCTCCCAATGATGCTCTCAATACTGCTGCTCCCACTAGTGTCCAGGA 2220
 Qy 2221 TATTTCACAATGTTATCATCAAGGACTTGTAGCATTTTCTTCTCAAAAGGTGCA 2280
 Db 2221 TATTTCACAATGTTATCATCAAGGACTTGTAGCATTTTCTTCTCAAAAGGTGCA 2280
 Qy 2281 AAGGCACTTCATTAACAACAATTAATTTGAGAGGTAGTGTGATGATGATGATGAT 2340
 Db 2281 AAGGCACTTCATTAACAACAATTAATTTGAGAGGTAGTGTGATGATGATGATGAT 2340
 Qy 2341 CAATCAGGCACTTGTCTCTCTCAATCCCAATTAAGGCTTCTTCACTGCTGC 2400
 Db 2341 CAATCAGGCACTTGTCTCTCTCTCAATCCCAATTAAGGCTTCTTCACTGCTGC 2400
 Qy 2401 AGGACTAGTGTGCCAAGGGTTCAAGCTCTACTACTGATGATGATCTTTTGAAGCAATTGC 2460
 Db 2401 AGGACTAGTGTGCCAAGGGTTCAAGCTCTACTACTGATGATGATCTTTTGAAGCAATTGC 2460
 Qy 2461 TTAGCTCTCTGTACACAAGACCAATAGCTCAAGCATCCCAAGATCATTTGACAGAG 2520
 Db 2461 TTAGCTCTCTGTACACAAGACCAATAGCTCAAGCATCCCAAGATCATTTGACAGAG 2520
 Qy 2521 ACAATGACTAAGGCTTACAGAGCCGCAATTAAGTCAAGATTTTAAAGGTGTCTCTGC 2580
 Db 2521 ACAATGACTAAGGCTTACAGAGCCGCAATTAAGTCAAGATTTTAAAGGTGTCTCTGC 2580
 Qy 2581 TGCTCTTCCAGAAACGCTGCAAGTGAATGCTCTTCTCGCTGATCATCTGAGAGCTGGG 2640
 Db 2581 TGCTCTTCCAGAAACGCTGCAAGTGAATGCTCTTCTCGCTGATCATCTGAGAGCTGGG 2640
 Qy 2641 ACCTAGACCTGAGCGCTGCTACGCGTCACTGCTGATCACTCTGAGACCCCTGCTAG 2700
 Db 2641 ACCTAGACCTGAGCGCTGCTACGCGTCACTGCTGATCACTCTGAGACCCCTGCTAG 2700
 Qy 2701 ACTGTGCCGACATGTGTGCCGACCTTTCTGACAGGAAACCCCAACTCAGTCTGAGGATCT 2760
 Db 2701 ACTGTGCCGACATGTGTGCCGACCTTTCTGACAGGAAACCCCAACTCAGTCTGAGGATCT 2760

[illegible]

D	b	3441	GACAGTGGATPAAAAACAGTCCTTCAAGCTTCTCTGTTTTATCTTCAACTCTCACTT	3900
Q	y	3901	TCTTAGCTTTACAGAAAAATATTTATATACACTCTTTAAAAAGATCTATGCTTTGAA	3960
D	b	3901	TCTTAGGATTACAGAAAAATATTTATATACACTCTTTAAAAAGATCTATGCTTTGAA	3960
Q	y	3961	AATGAGAGGAAACACAGGCTGTGGCCGAGGACGNGCTGCAATTTGCTGAGTTTGAATGC	4020
D	b	3961	AATGAGAGGAAACACAGGCTGTGGCCGAGGACGNGCTGCAATTTGCTGAGTTTGAATGC	4020
Q	y	4021	AACATTTGCCCTTACTGGAAATTAACAGACTGACGACCTTGGAGCATCTCTAAAGTGTCA	4080
D	b	4021	AACATTTGCCCTTACTGGAAATTAACAGACTGACGACCTTGGAGCATCTCTAAAGTGTCA	4080
Q	y	4081	ACGTTTTCTATGACTTTTAGTAGTAGATGAGACAGAGGTAGATCCTTAAAAAGCATGCT	4140
D	b	4081	ACGTTTTCTATGACTTTTAGTAGTAGATGAGACAGAGGTAGATCCTTAAAAAGCATGCT	4140
Q	y	4141	GAGAGGATCAAAAGTTTTTATATCAACATCTTTATATTTGATTTCAATTTGAGTTAACAG	4200
D	b	4141	GAGAGGATCAAAAGTTTTTATATCAACATCTTTATATTTGATTTCAATTTGAGTTAACAG	4200
Q	y	4201	TGGTGGTAAAGATATGATTTTTCTATCTTTTCCCTTGACCTTTAATCTTCAAGTAAACA	4260
D	b	4201	TGGTGGTAAAGATATGATTTTTCTATCTTTTCCCTTGACCTTTAATCTTCAAGTAAACA	4260
Q	y	4261	ACTCTTCATCAGGACCATGATCTATAGACCTCTCTAATGAGATATCTGGGTGATGTGA	4320
D	b	4261	ACTCTTCATCAGGACCATGATCTATAGACCTCTCTAATGAGATATCTGGGTGATGTGA	4320
Q	y	4321	CCCCAAACATCTCTCCAAAGCATTAATATCCATCATAGGCGTATGTTTTATACACA	4380
D	b	4321	CCCCAAACATCTCTCCAAAGCATTAATATCCATCATAGGCGTATGTTTTATACACA	4380
Q	y	4381	GAGCATGTTTTATGTTTGTGACAAAGAAAGTTGTATGGGTGGCGGATGAGGTATAGA	4440
D	b	4381	GAGCATGTTTTATGTTTGTGACAAAGAAAGTTGTATGGGTGGCGGATGAGGTATAGA	4440
Q	y	4441	CGATGATGCTACCTTCAAGCTACTTTAATAAAGATCTTAAATGGGACGAGACCTG	4500
D	b	4441	CGATGATGCTACCTTCAAGCTACTTTAATAAAGATCTTAAATGGGACGAGACCTG	4500
Q	y	4501	TGAACAGACACCTTAATATATGGGTGTGATGTCGAATATACCAATCTTCTGAAAGCCAA	4560
D	b	4501	TGAACAGACACCTTAATATATGGGTGTGATGTCGAATATACCAATCTTCTGAAAGCCAA	4560
Q	y	4561	ACTCTTTAAGAAAGTCCCTAATTTAGAAACACCAAACTTCAACATATCATATTAAGC	4620
D	b	4561	ACTCTTTAAGAAAGTCCCTAATTTAGAAACACCAAACTTCAACATATCATATTAAGC	4620
Q	y	4621	AAACATTTGAGGAAGTGTGTTGAATGTTGGGAGAGGAAATCTATGCGTCTCGTGG	4680
D	b	4621	AAACATTTGAGGAAGTGTGTTGAATGTTGGGAGAGGAAATCTATGCGTCTCGTGG	4680
Q	y	4681	GTTCTTTATCTCAGAAATGCCCAATCAGGTAAGGTTGCTACATTTTGATATGTTGTGA	4740
D	b	4681	GTTCTTTATCTCAGAAATGCCCAATCAGGTAAGGTTGCTACATTTTGATATGTTGTGA	4740
Q	y	4741	TGCTTCTCCAAAGGTATATTATATTAAGAGGTTGTACAAACACAGATATATAAG	4800
D	b	4741	TGCTTCTCCAAAGGTATATTATATTAAGAGGTTGTACAAACACAGATATATAAG	4800
Q	y	4801	CTGCGAACCTGTGCAACGCTCATAGTTCTAGCTTGGAGGTTGAGAGGAGATG	4860
D	b	4801	CTGCGAACCTGTGCAACGCTCATAGTTCTAGCTTGGAGGTTGAGAGGAGATG	4860
Q	y	4861	GCTTAAACAAGGTGTTCAAGGCCACGCTGGGCAACATTAACAAGTCTGTCTTCAAAA	4920
D	b	4861	GCTTAAACAAGGTGTTCAAGGCCACGCTGGGCAACATTAACAAGTCTGTCTTCAAAA	4920
Q	y	4921	AAAAAAAAAAAAAAAAAGAGAGAGGCGGAGGCTGTGAGCTCAAGCTGTATCCCA	4980
D	b	4921	AAAAAAAAAAAAAAAAAGAGAGAGGCGGAGGCTGTGAGCTCAAGCTGTATCCCA	4980

D	b	4921	AAAAAAAAAAAAAAAAAGAAAGAGAGGCGCGGCGTGTGGCTCAAGCCGTGTAATCCCA	4993
O	y	4981	GCACCTTTGGAGGCGCGGACCGGAGCATCACTGTGTGCAGAGTTTGAACCACTCTGG	5040
D	b	4981	GCACCTTTGGAGGCGCGGACCGGCGGAGCATCACTGTGTGCAGAGTTTGAACCACTCTGG	5040
O	y	5041	CCAACATGCGCAAAACCCCGCTGTCTCAAAATGCAAAAATTAGCAGGCGGGTAGAG	5100
D	b	5041	CCAACATGCGCAAAACCCCGCTGTCTCAAAATGCAAAAATTAGCAGGCGGGTAGAG	5100
O	y	5101	GCACTGTAAATCCCACTACTTTGGAGGCTGAGGAGAGAAATCGCTTGAACCAAGAGG	5168
D	b	5101	GCACTGTAAATCCCACTACTTTGGAGGCTGAGGAGAGAAATCGCTTGAACCAAGAGG	5168
O	y	5161	TGGAGGTTGCACTAAGCTGAGATCGTCCCTTTGCACTCAAGCTTGGCGCAAGAGCAAG	5220
D	b	5161	TGGAGGTTGCACTAAGCTGAGATCGTCCCTTTGCACTCAAGCTTGGCGCAAGAGCAAG	5220
O	y	5281	AGAGAGAGTGGGGAAGCATTTGCAAGAAATTTGCTTATCCAACAAAATGTAAAGAGC	5340
D	b	5281	AGAGAGAGTGGGGAAGCATTTGCAAGAAATTTGCTTATCCAACAAAATGTAAAGAGC	5340
O	y	5341	CAATAGGAGATCCGTAATTTGTCTCTTTGGTGTCAATTTGTCTTACCAACTGTCTTTGA	5400
D	b	5341	CAATAGGAGATCCGTAATTTGTCTCTTTGGTGTCAATTTGTCTTACCAACTGTCTTTGA	5400
O	y	5401	CAGTGAAGAAATATTCAGAAATACCATTCCTGTGGCTTATTAAGTACCAACCTTG	5468
D	b	5401	CAGTGAAGAAATATTCAGAAATACCATTCCTGTGGCTTATTAAGTACCAACCTTG	5468
O	y	5461	CAATGAAGTGAAGCATTCACAGAAATCTTGAATGACCAACTGCTTATTTTAATCTT	5520
D	b	5461	CAATGAAGTGAAGCATTCACAGAAATCTTGAATGACCAACTGCTTATTTTAATCTT	5520
O	y	5521	ATTGTACATAAGTTTGTAAAGAGTTAAAAATGTTACTTCATGATATTCATTTATTTT	5580
D	b	5521	ATTGTACATAAGTTTGTAAAGAGTTAAAAATGTTACTTCATGATATTCATTTATTTT	5580
O	y	5581	ATATTATTTTGGCTAATGATTTTTTATTAACATGATTTCTTTCTGATATATTGAA	5640
D	b	5581	ATATTATTTTGGCTAATGATTTTTTATTAACATGATTTCTTTCTGATATATTGAA	5640
O	y	5641	TGAGTCTCAAGGCTCATTAATTTATTAACCTTGAATGATTTCAATPAACAAGTATG	5700
D	b	5641	TGAGTCTCAAGGCTCATTAATTTATTAACCTTGAATGATTTCAATPAACAAGTATG	5700
O	y	5701	AATTGTACATGTGCAATGATGGTGTCAAGAACCAATTCCTGTGATTTTATGTAACCTT	5760
D	b	5701	AATTGTACATGTGCAATGATGGTGTCAAGAACCAATTCCTGTGATTTTATGTAACCTT	5760
O	y	5761	TATGACGCAATTTGCTTCTTGCTCACTTTCATCACTTAATPAATGATPAATTAATT	5820
D	b	5761	TATGACGCAATTTGCTTCTTGCTCACTTTCATCACTTAATPAATGATPAATTAATT	5820
O	y	5821	TGGAAGCTGTGAAGTAAATATCCAAATPAATTAATAAAGATTTATATGAAGTTA	5880
D	b	5821	TGGAAGCTGTGAAGTAAATATCCAAATPAATTAATAAAGATTTATATGAAGTTA	5880
O	y	5881	AAATPAATAATCAGTATGATGGAATPAACCTTGAAGTCCAGAAAGTTATCCCATCATCTG	5940
D	b	5881	AAATPAATAATCAGTATGATGGAATPAACCTTGAAGTCCAGAAAGTTATCCCATCATCTG	5940
O	y	5941	TAAATCAATAATTTCTCAAGAGGTGTAAAGACCAATTCAAATGAGAAATAATGATCTTCT	6000
D	b	5941	TAAATCAATAATTTCTCAAGAGGTGTAAAGACCAATTCAAATGAGAAATAATGATCTTCT	6000
O	y	6001	CAACAAATGGTGTGAGTAAATGATGATTTATCAATGCAAAAGAAATTAATGATCTTCAAC	6060
D	b	6001	CAACAAATGGTGTGAGTAAATGATGATTTATCAATGCAAAAGAAATTAATGATCTTCAAC	6060

Oy		6061	TAGCAGCATATATAAAATTAATTAAAAATTCATCAATACCTAATATATAGAGACTAA	61220
Dd		6061	TACGACCATATATAAAATTAATTAAAAATTCATCAATACCTAATATATAGAGACTAA	61220
Oy		6121	TTTATAAACCGGTAGAGAAA CATAGGTAAAAATGTTTATGGCTTAGATTAGCCACAAG	61800
Dd		6121	TTTTATAACCGGTAGAGAAA CATAGGTAAAAATGTTTATGGCTTAGATTAGGCCACAAG	61800
Oy		6181	CTTTCTTAATTATGCATCTCAAAAAGCACAGCAACCMAAACAAAATTAATCAATTGGACT	62400
Dd		6181	CTTTCTTAATTATGCATCTCAAAAAGCACAGCAACCMAAACAAAATTAATCAATTGGACT	62400
Oy		6241	TCATCGAAATTAATAATCTTTGTGCTCATCAAAAGCACCTTAGTAAAGAAAGTGAAGAACA	63000
Dd		6241	TCATCGAAATTAATAATCTTTGTGCTCATCAAAAGCACCTTAGTAAAGAAAGTGAAGAACA	63000
Oy		6301	CCCACAGAAAGTGAGAGAAAACACTTGCAAAATCATATATCTGATAGAGGTTTGATATAT	63600
Dd		6301	CCCACAGAAAGTGAGAGAAAACACTTGCAAAATCATATATCTGATAGAGGTTTGATATAT	63600
Oy		6361	GATATATATATAGGTTTTTGTCCATAGTTCCTGCTTATAAACCCCTCAACCTTTGTAC	64200
Dd		6361	GATATATATATAGGTTTTTGTCCATAGTTCCTGCTTATAAACCCCTCAACCTTTGTAC	64200
Oy		6421	AGTCATTTGTTATTAAGGTTGGATGGTTTAAAGGCTCAGAGCAAACCTCTCTCTCACT	64800
Dd		6421	AGTCATTTGTTATTAAGGTTGGATGGTTTAAAGGCTCAGAGCAAACCTCTCTCTCACT	64800
Oy		6481	TCTCCAGCCCTCCCTGTCTCTGACACCTCATCTTCTCCTGAGGCCACATAGAACTAGAT	65400
Dd		6481	TCTCCAGCCCTCCCTGTCTCTGACACCTCATCTTCTCCTGAGGCCACATAGAACTAGAT	65400
Oy		6541	CTCTCTTCCA CAGGCGGTCAAAG 6564	
Dd		6541	CTCTCTTCCA CAGGCGGTCAAAG 6564	
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RESULT 2				
; Sequence 15, Application US/09966880A				
; GENERAL INFORMATION:				
; APPLICANT: Honjo, Tasuku				
; APPLICANT: Muramatsu, Masamichi				
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE				
; FILE REFERENCE: 06501-088001				
; CURRENT APPLICATION NUMBER: US/09/966, 880A				
; PRIOR FILING DATE: 2001-09-28				
; PRIOR APPLICATION NUMBER: PCT/JP00/01918				
; PRIOR FILING DATE: 2000-03-28				
; PRIOR APPLICATION NUMBER: JP 11-371382				
; PRIOR FILING DATE: 1999-12-27				
; PRIOR APPLICATION NUMBER: JP 11-178999				
; PRIOR FILING DATE: 1999-06-24				
; PRIOR APPLICATION NUMBER: JP 11-87192				
; PRIOR FILING DATE: 1999-03-29				
; NUMBER OF SEQ ID NOS: 36				
; SOFTWARE: FastSeq for Windows Version 4.0				
; SEQ ID NO 15				
; LENGTH: 2172				
; TYPE: DNA				
; ORGANISM: Homo sapiens				
US-09-966-880A-15				
<hr/>				
Query Match 33.1%; Score 2172; DB 1; Length 2172;				
Best Local Similarity 100.0%; Pred. No.2,1e-14;				
Matches 2172; Conservative 0; Mismatches 0; Indels 0; Gaps 0;				
Oy		3741	CCCCGTATATAGGTTGATGACTTACGAGACGCAATTTGATCTTTGGACTTTGATAGCAA	38000
Dd		1	CCCCGTATATAGGTTGATGACTTACGAGACGCAATTTGATCTTTGGACTTTGATAGCAA	60
Oy		3801	CTTCCAGGAATGTCACACGATGAATATCTCTGCTGAAAGACAGTGATAAAAACAGT	38600

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Db      61  CTTCCAGGATGTCACACAGATGAATATCTCTGTGAAGACAGGGATAAAAACGT 120
Qy      3861 CCTCAAGCTTCTCTGTTTATCTTCAACTCTCACTTCTTGAAGTTTACAGAAAA 3920
Db      121  CCTCAAGCTTCTCTGTTTATCTTCAACTCTCACTTCTTGAAGTTTACAGAAAA 180
Qy      3921 AATATTATATACGACTCTTAAAAAGATCTATGCTTGAATAATAGAGAAACACAGT 3980
Db      181  AATATTATATACGACTCTTAAAAAGATCTATGCTTGAATAATAGAGAAACACAGT 240
Qy      3981 CTGGCCAGGAGCTGCTGCATTTGTCAGTTTGAATGCAATTTGTCCTTACCTGGA 4040
Db      241  CTGGCCAGGAGCTGCTGCATTTGTCAGTTTGAATGCAATTTGTCCTTACCTGGA 300
Qy      4041 ATAACAGAACTGACAGGACCTGGAGACCTCTAAAGTCAACGTTTCTATGACTTTA 4100
Db      301  ATAACAGAACTGACAGGACCTGGAGACCTCTAAAGTCAACGTTTCTATGACTTTA 360
Qy      4101 GGTAGATGAGACAGAGTAGATCTTAAAAAGCATGCTGAGAGGATCAATGTTTTA 4160
Db      361  GGTAGATGAGACAGAGTAGATCTTAAAAAGCATGCTGAGAGGATCAATGTTTTA 420
Qy      4161 TATCAACATCCTTATTTATTTGATTCATTTGATTAACAGTGTGTTAGTATGATTT 4220
Db      421  TATCAACATCCTTATTTATTTGATTCATTTGATTAACAGTGTGTTAGTATGATTT 480
Qy      4221 TCTATTTCTTCCCTTACGTTTACTTTCAGATTAACAACAACCTTCCATCAGGCTAT 4280
Db      481  TCTATTTCTTCCCTTACGTTTACTTTCAGATTAACAACAACCTTCCATCAGGCTAT 540
Qy      4281 TCTATAGACCTCTTATAGAGATCTGAGTATGTCAGTTCAGCCCAACATCTCTCAA 4340
Db      541  TCTATAGACCTCTTATAGAGATCTGAGTATGTCAGTTCAGCCCAACATCTCTCAA 600
Qy      4341 GCATTAATATCCATCATGCGCTGATGTTTATATCAGCAGAAAGATTTTTATGTTG 4400
Db      601  GCATTAATATCCATCATGCGCTGATGTTTATATCAGCAGAAAGATTTTTATGTTG 660
Qy      4401 TACAAAAGAAATGTTATGAGTGGGATGAGGATAGACATGCTCACTTCA 4460
Db      661  TACAAAAGAAATGTTATGAGTGGGATGAGGATAGACATGCTCACTTCA 720
Qy      4461 GCATCTTAATTAAGATCTTAAAAATGGGAGAGAGCTGTAACAAGCACCTTAATA 4520
Db      721  GCATCTTAATTAAGATCTTAAAAATGGGAGAGAGCTGTAACAAGCACCTTAATA 780
Qy      4521 TGGGTGATGCTGTAAGTACCAATCTTGAACAACCAACTCTTTAAGAAATCCCT 4580
Db      781  TGGGTGATGCTGTAAGTACCAATCTTGAACAACCAACTCTTTAAGAAATCCCT 840
Qy      4581 AATTAGAAACCCCAAACTTCATATCATATATTAGCAACAATTGAGAGAAATG 4640
Db      841  AATTAGAAACCCCAAACTTCATATCATATATTAGCAACAATTGAGAGAAATG 900
Qy      4641 CTTGAAGTTGGGAGAGAAATCTATGCTCTCGTGGCTCTCTTCACTAGAAAG 4700
Db      901  CTTGAAGTTGGGAGAGAAATCTATGCTCTCGTGGCTCTCTTCACTAGAAAG 960
Qy      4701 CCAATCAGGTCAAGGTTGGTACATTTGATGATGATGCTTCCCAAGATATAT 4760
Db      961  CCAATCAGGTCAAGGTTGGTACATTTGATGATGATGCTTCCCAAGATATAT 1020
Qy      4761 TAACTATATAAGAGTTGTGACAAAACAGATGATTAAGCTGCAACCTGACACGC 4820
Db      1021  TAACTATATAAGAGTTGTGACAAAACAGATGATTAAGCTGCAACCTGACACGC 1080
Qy      4821 TCAATGTTCTAGCTGCTTGGAGGTTAGAGAGGAGATGGCTTGAACACAGGTGTTCA 4880
Db      1081  TCAATGTTCTAGCTGCTTGGAGGTTAGAGAGGAGATGGCTTGAACACAGGTGTTCA 1140
Qy      4881 GGCACGCTGGGCAACATTAACAAGATCTCTCTCAAAAAAAGAAAAAAGAAA 4940

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Db      1141 GGCACGCTGGGCAACATTAACAAGATCTCTCTCAAAAAAAGAAAAAAGAAA 1200
Qy      4941 GAGAGAGGCGGAGCGTGTGCTCAAGCTGTATATCCACACTTTGGAGGCCAGACC 5000
Db      1201  GAGAGAGGCGGAGCGTGTGCTCAAGCTGTATATCCAGCACTTTGGAGGCCAGACC 1260
Qy      5001 GGGCGATCACCTGTGTGAGAGTTGAAACAGCCTGGCCAAATGAGAAACCCGT 5060
Db      1261  GGGCGATCACCTGTGTGAGAGTTGAAACAGCCTGGCCAAATGAGAAACCCGT 1320
Qy      5061 CTGTACTCAAAATGCAAAATTTAGCCAGCGGTGAGACAGCACTGTATCCAGCTAC 5120
Db      1321  CTGTACTCAAAATGCAAAATTTAGCCAGCGGTGAGACAGCACTGTATCCAGCTAC 1380
Qy      5121 TTGGAGGCTGAGGACAGAGATGCTTGAACCCAGAGGTGAGAGTTGACATGCTGA 5180
Db      1381  TTGGAGGCTGAGGACAGAGATGCTTGAACCCAGAGGTGAGAGTTGACATGCTGA 1440
Qy      5181 GATGCTGCGTTGCACTTCAGCTGGCGCACAGAGCAACTGTCTCAGAAAAAAA 5240
Db      1441  GATGCTGCGTTGCACTTCAGCTGGCGCACAGAGCAACTGTCTCAGAAAAAAA 1500
Qy      5241 AAAAAAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAT 5300
Db      1501  AAAAAAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAT 1560
Qy      5301 TGCAAGAAATTTGCTTATCCAAACAATGTAGAGAGCAATTAAGGATCCCTATTG 5360
Db      1561  TGCAAGAAATTTGCTTATCCAAACAATGTAGAGAGCAATTAAGGATCCCTATTG 1620
Qy      5361 TCTCTTTGGTGTATTTGTCTCCTAACAACGTGCTTTGACAGTGAAGAAATATTCAG 5420
Db      1621  TCTCTTTGGTGTATTTGTCTCCTAACAACGTGCTTTGACAGTGAAGAAATATTCAG 1680
Qy      5421 ATAACCATATCCCTGTCCTTATACCAACATTTAGAGAGCAATTAAGGATCCCT 5480
Db      1681  ATAACCATATCCCTGTCCTTATACCAACATTTAGAGAGCAATTAAGGATCCCT 1740
Qy      5481 AAGGAAACCTGATGACACAGCTCTTATTTATCTTATATGATATGATATGATTT 5540
Db      1741  AAGGAAACCTGATGACACAGCTCTTATTTATCTTATATGATATGATATGATTT 1800
Qy      5541 AGAGTTAAATTTGCTTCTGATGATTCATTTATTTATTTATTTATTTATTTATG 5600
Db      1801  AGAGTTAAATTTGCTTCTGATGATTCATTTATTTATTTATTTATTTATTTATG 1860
Qy      5601 ATTTTTATTAACATGATTTCTTTCTGATATGATATGATATGATGATGATGATG 5660
Db      1861  ATTTTTATTAACATGATTTCTTTCTGATATGATATGATATGATGATGATGATG 1920
Qy      5661 AATTATTAACCTTGAAGATTTCTTAATAACAAGTATGATATGATATGATATGAT 5720
Db      1921  AATTATTAACCTTGAAGATTTCTTAATAACAAGTATGATATGATATGATATGAT 1980
Qy      5721 GGTGTACAGAGCAATTTCTGATTTTATGATTAACCTTATGACAGCAATTTGCTTC 5780
Db      1981  GGTGTACAGAGCAATTTCTGATTTTATGATTAACCTTATGACAGCAATTTGCTTC 2040
Qy      5781 TGGCTCACTTCAATCAGTTAAATGAATGAATGAATGAATGAATGAATGAATGA 5840
Db      2041  TGGCTCACTTCAATCAGTTAAATGAATGAATGAATGAATGAATGAATGAATGA 2100
Qy      5841 TACCAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 5900
Db      2101  TACCAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 2160
Qy      5901 GGAATTAACCTG 5912
Db      2161  GGAATTAACCTG 2172

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; Sequence 13, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Muramatsu, Masamichi
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 06501-088001
; CURRENT APPLICATION NUMBER: US/09/966,880A
; PRIOR FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: PCT/JP00/01918
; PRIOR FILING DATE: 2000-03-28
; PRIOR APPLICATION NUMBER: JP 11-371382
; PRIOR FILING DATE: 1999-12-27
; PRIOR APPLICATION NUMBER: JP 11-178999
; PRIOR FILING DATE: 1999-06-24
; PRIOR APPLICATION NUMBER: JP 11-87192
; PRIOR FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13
; LENGTH: 271
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-966-880A-13

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Query Match 4.1%; Score 271; DB 1; Length 271;

Best Local Similarity 100.0%; Pred. No. 1.3; Mismatches 0; Indels 0; Gaps 0;

Matches 271; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 2592 AACGGCTGCACAGTGGATGCTCTTCTCCGTACATCTTGAGACTGAGACCTAGACCT 2651
DB 1 AACGGCTGCACAGTGGATGCTCTTCTCCGTACATCTTGAGACTGAGACCTAGACCT 60
QY 2652 GAGCGCTCTACCGCGTACCTGTTCACTCTCTGAGACCCCTGCTAGACTGTGCCGA 2711
DB 61 GAGCGCTCTACCGCGTACCTGTTCACTCTCTGAGACCCCTGCTAGACTGTGCCGA 120
QY 2712 CATGTGGCGGACTTCTTCTGAGGAGAACCCCACTCATCTGAGATCTTCAACCGCGCGC 2771
DB 121 CATGTGGCGGACTTCTTCTGAGGAGAACCCCACTCATCTGAGATCTTCAACCGCGCGC 180
QY 2772 CTCTACTCTGTGAGAGACCGGAGGCTGAGCGGCGGCTGAGCGGCGC 2831
DB 131 CTCTACTCTGTGAGAGACCGGAGGCTGAGCGGCGGCTGAGCGGCGC 240
QY 2832 GGGGTGCAATAGCCATCATGACCTTCAAG 2862
DB 241 GGGGTGCAATAGCCATCATGACCTTCAAG 271

```

RESULT 4

US-09-966-880A-9/c

Sequence 9, Application US/09966880A

GENERAL INFORMATION:

APPLICANT: Muramatsu, Masamichi

TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE

FILE REFERENCE: 06501-088001

CURRENT APPLICATION NUMBER: US/09/966,880A

PRIOR FILING DATE: 2001-09-28

PRIOR APPLICATION NUMBER: PCT/JP00/01918

PRIOR FILING DATE: 2000-03-28

PRIOR FILING DATE: 1999-12-27

PRIOR FILING DATE: 1999-06-24

PRIOR APPLICATION NUMBER: JP 11-87192

NUMBER OF SEQ ID NOS: 36

SOFTWARE: FastSeq for Windows Version 4.0

SEQ ID NO 9

LENGTH: 5514

TYPE: DNA

ORGANISM: Homo sapiens

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; FEATURE:
; NAME/KEY: intron
; LOCATION: (1)...(1031)
; FEATURE:
; NAME/KEY: exon
; LOCATION: (1032)...(1118)
; FEATURE:
; NAME/KEY: intron
; LOCATION: (1119)...(5514)
US-09-966-880A-9

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Query Match 2.7%; Score 178.6; DB 1; Length 5514;

Best Local Similarity 83.1%; Pred. No. 0.25; Mismatches 202; Conservative 1; Mismatches 40; Indels 0; Gaps 0;

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QY 5012 CTGTGTGAGAGTTTGAGACCAAGCTGCGCAATGCAAAACCCCGTCTATCAAA 5071
DB 5512 CTGAGGTGAGAGTTTGAGACCAAGCTGCGCAATGCAAAACCCCGTCTATCAAA 5453
QY 5072 ATGCAAAATTTAGCAAGCGGTGTAGAGGACCTGTATCCAGCTACTTGGAGGCTG 5131
DB 5452 ATGCAAAATTTAGCAAGCGGTGTAGAGGACCTGTATCCAGCTACTTGGAGGCTG 5393
QY 5132 AGCAGAGAAATCGCTTGAACCCAGAGGTGAGGTTGAGTGAAGTGTGCGCTG 5191
DB 5392 AGCAGAGAAATCGCTTGAACCCAGAGGTGAGGTTGAGTGAAGTGTGCGCTG 5333
QY 5192 TGCATCTGAGCTGAGCGGCAAGAGCAAGACTCTTCTCAGAAAAAAGAG 5251
DB 5332 TGCATCTGAGCTGAGCGGCAAGAGCAAGACTCTTCTCAGAAAAAAGAG 5273
QY 5252 AGA 5254
DB 5272 AAA 5270

```

RESULT 5

US-09-966-880A-9

Sequence 9, Application US/09966880A

GENERAL INFORMATION:

APPLICANT: Muramatsu, Masamichi

TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE

FILE REFERENCE: 06501-088001

CURRENT APPLICATION NUMBER: US/09/966,880A

PRIOR FILING DATE: 2001-09-28

PRIOR APPLICATION NUMBER: PCT/JP00/01918

PRIOR FILING DATE: 2000-03-28

PRIOR APPLICATION NUMBER: JP 11-371382

PRIOR FILING DATE: 1999-12-27

PRIOR APPLICATION NUMBER: JP 11-178999

PRIOR FILING DATE: 1999-06-24

PRIOR APPLICATION NUMBER: JP 11-87192

NUMBER OF SEQ ID NOS: 36

SOFTWARE: FastSeq for Windows Version 4.0

SEQ ID NO 9

LENGTH: 5514

TYPE: DNA

ORGANISM: Homo sapiens

FEATURE:

NAME/KEY: intron

LOCATION: (1)...(1031)

FEATURE:

NAME/KEY: exon

LOCATION: (1032)...(1118)

FEATURE:

NAME/KEY: intron

LOCATION: (1119)...(5514)

US-09-966-880A-9

Query Match 2.7%; Score 174.2; DB 1; Length 5514;

Best Local Similarity 74.8%; Pred. No. 0.27;


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/ Sequence 15, Application US/09966880A
/ GENERAL INFORMATION:
/ APPLICANT: Honjo, Tasuku
/ TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
/ FILE REFERENCE: 06501-088001
/ CURRENT APPLICATION NUMBER: US/09/966,880A
/ PRIOR FILING DATE: 2001-09-28
/ PRIOR APPLICATION NUMBER: PCT/JP00/01918
/ PRIOR FILING DATE: 2000-03-28
/ PRIOR APPLICATION NUMBER: JP 11-371382
/ PRIOR FILING DATE: 1999-12-27
/ PRIOR APPLICATION NUMBER: JP 11-178999
/ PRIOR FILING DATE: 1999-06-24
/ PRIOR APPLICATION NUMBER: JP 11-87192
/ PRIOR FILING DATE: 1999-03-29
/ NUMBER OF SEQ ID NOS: 36
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 15
/ LENGTH: 2172
/ TYPE: DNA
/ ORGANISM: Homo sapiens
US-09-966-880A-15

Query Match          0.4%; Score 29.4; DB 1; Length 2172;
Best Local Similarity 56.8%; Pred. No. 4.9;
Matches 54; Conservative 0; Mismatches 41; Indels 0; Gaps 0;

QY 3395 TTCTCTCTCCATCAGCTTTTCTTCTGCTTTCACCATTCAGAGCCCTTGCTAAG 3454
DB 1589 TTGTGTGATAAGCAATTTCTTGCAATGCTTCCCATCTCTCCCAATATTG 1530
QY 3455 TTCCCTTCCCTCCCTTTCTTCTTTCTTTGTTT 3489
DB 1529 TTCTCTCTCTCTCTCTCTCTTTT 1495

RESULT 10
US-09-966-880A-13/c
/ Sequence 13, Application US/09966880A
/ GENERAL INFORMATION:
/ APPLICANT: Honjo, Tasuku
/ TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
/ FILE REFERENCE: 06501-088001
/ CURRENT APPLICATION NUMBER: US/09/966,880A
/ PRIOR FILING DATE: 2001-09-28
/ PRIOR APPLICATION NUMBER: PCT/JP00/01918
/ PRIOR FILING DATE: 2000-03-28
/ PRIOR APPLICATION NUMBER: JP 11-371382
/ PRIOR FILING DATE: 1999-12-27
/ PRIOR APPLICATION NUMBER: JP 11-178999
/ PRIOR FILING DATE: 1999-06-24
/ PRIOR APPLICATION NUMBER: JP 11-87192
/ PRIOR FILING DATE: 1999-03-29
/ NUMBER OF SEQ ID NOS: 36
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 13
/ LENGTH: 271
/ TYPE: DNA
/ ORGANISM: Homo sapiens
US-09-966-880A-13

Query Match          0.3%; Score 20.6; DB 1; Length 271;
Best Local Similarity 51.6%; Pred. No. 43;
Matches 47; Conservative 0; Mismatches 44; Indels 0; Gaps 0;

QY 2782 GTGAGACCGCAAGGCTGAGCCCGAGGGCTCGGGCGCTGACCGCCCGGGGTGCAA 2841
DB 263 GTGATGATGGCTATTGTGACCCCGGCGGTGACCGCGCGGAGCCCTCGGGCTCACGC 204
QY 2842 TAGCATCATGACCTTCAAAGGTGGGAAG 2872
```

```
DB 203 TTGGGTCCTCAAGAGTAGAGCGCGCG 173

RESULT 11
US-09-966-880A-11/c
/ Sequence 11, Application US/09966880A
/ GENERAL INFORMATION:
/ APPLICANT: Honjo, Tasuku
/ TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
/ FILE REFERENCE: 06501-088001
/ CURRENT APPLICATION NUMBER: US/09/966,880A
/ PRIOR FILING DATE: 2001-09-28
/ PRIOR APPLICATION NUMBER: PCT/JP00/01918
/ PRIOR FILING DATE: 2000-03-28
/ PRIOR APPLICATION NUMBER: JP 11-371382
/ PRIOR FILING DATE: 1999-12-27
/ PRIOR APPLICATION NUMBER: JP 11-178999
/ PRIOR FILING DATE: 1999-06-24
/ PRIOR APPLICATION NUMBER: JP 11-87192
/ NUMBER OF SEQ ID NOS: 36
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 11
/ LENGTH: 87
/ TYPE: DNA
/ ORGANISM: Homo sapiens
US-09-966-880A-11

Query Match          0.3%; Score 17.4; DB 1; Length 87;
Best Local Similarity 62.8%; Pred. No. 1.4e+02;
Matches 27; Conservative 0; Mismatches 16; Indels 0; Gaps 0;

QY 501 AATATGAGCAGTGAAGATATAGAAATGATCAGATGTTTC 543
DB 46 AAGTCAGGCGCAAAAATCTCATCTCATATATGATGTTTC 4

RESULT 12
US-09-966-880A-14/c
/ Sequence 14, Application US/09966880A
/ GENERAL INFORMATION:
/ APPLICANT: Honjo, Tasuku
/ TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
/ FILE REFERENCE: 06501-088001
/ CURRENT APPLICATION NUMBER: US/09/966,880A
/ PRIOR FILING DATE: 2001-09-28
/ PRIOR APPLICATION NUMBER: PCT/JP00/01918
/ PRIOR FILING DATE: 2000-03-28
/ PRIOR APPLICATION NUMBER: JP 11-371382
/ PRIOR FILING DATE: 1999-12-27
/ PRIOR APPLICATION NUMBER: JP 11-178999
/ PRIOR FILING DATE: 1999-06-24
/ PRIOR APPLICATION NUMBER: JP 11-87192
/ PRIOR FILING DATE: 1999-03-29
/ NUMBER OF SEQ ID NOS: 36
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 14
/ LENGTH: 116
/ TYPE: DNA
/ ORGANISM: Homo sapiens
US-09-966-880A-14

Query Match          0.3%; Score 17; DB 1; Length 116;
Best Local Similarity 52.1%; Pred. No. 1e+02;
Matches 38; Conservative 0; Mismatches 35; Indels 0; Gaps 0;

QY 3106 TCTCTACCCCATATCCCGCCCTTTTCTTTTCTTTTGAAGATATATTTTA 3165
DB 76 TTTTCAATGAGCCCTTCCCGAGCTTTGAAGATTTCTTGATGTTTCTNCAAAAGATATTC 17
QY 3166 CTGCTGAATACT 3178
```

Db 16 CAGCAGTAAAT 4

RESULT 13
US-09-966-880A-11
; Sequence 11, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Honjo, Tasuku
; APPLICANT: Muramatsu, Masamichi
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 06501-088001
; CURRENT APPLICATION NUMBER: US/09/966, 880A
; PRIOR FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: PCT/JP00/01918
; PRIOR FILING DATE: 2000-03-28
; PRIOR APPLICATION NUMBER: JP 11-371382
; PRIOR FILING DATE: 1999-12-27
; PRIOR APPLICATION NUMBER: JP 11-178999
; PRIOR FILING DATE: 1999-06-24
; PRIOR APPLICATION NUMBER: JP 11-871992
; PRIOR FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11
; LENGTH: 87
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-966-880A-11

Query Match 0.2%; Score 15.8; DB 1; Length 87;
Best Local Similarity 65.7%; Pred. No. 1.4e+02;
Matches 23; Conservative 0; Mismatches 12; Indels 0; Gaps 0;

QY 1765 ATGATTATTAATGATCTTGGCTACCCGAGA 1799
Db 9 ATCATTAATGAAGTAGATTTTCTGGCCTGAGA 43

RESULT 14
US-09-966-880A-12/C
; Sequence 12, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Honjo, Tasuku
; APPLICANT: Muramatsu, Masamichi
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 06501-088001
; CURRENT APPLICATION NUMBER: US/09/966, 880A
; PRIOR FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: PCT/JP00/01918
; PRIOR FILING DATE: 2000-03-28
; PRIOR APPLICATION NUMBER: JP 11-371382
; PRIOR FILING DATE: 1999-12-27
; PRIOR APPLICATION NUMBER: JP 11-178999
; PRIOR FILING DATE: 1999-06-24
; PRIOR APPLICATION NUMBER: JP 11-871992
; PRIOR FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 12
; LENGTH: 148
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-966-880A-12

Query Match 0.2%; Score 15.8; DB 1; Length 148;
Best Local Similarity 60.5%; Pred. No. 83;
Matches 26; Conservative 0; Mismatches 17; Indels 0; Gaps 0;

QY 1559 CTTGTCCAGCAAAATTTAAATGAAAAACAATTTGTC 1601
Db 58 CTTAGCCGACGACATTTTGAATGTAAAGAACTTCTC 16

Search completed: March 10, 2004, 13:40:47
Job time : 58.0535 secs
GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model
Run on: March 10, 2004, 13:38:36 ; Search time 0.74294 Seconds
(without alignments)
3.483 Million cell updates/sec

Title: US-09-966-880A-11
Perfect score: 87
Sequence: 1 agagaccatcataatga.....ctggaaccacatgagacag 87

Scoring table: IDENTITY NUC
Gapop 10.0, Gapext 0.5

Searched: 7 segs, 14872 residues
Total number of hits satisfying chosen parameters: 14

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : US09966880A.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match Length	DB ID	Description
1	87	100.0	87 1 US-09-966-880A-11	Sequence 11, Appl
2	87	100.0	5514 1 US-09-966-880A-9	Sequence 9, Appl
3	17.4	20.0	6564 1 US-09-966-880A-10	Sequence 10, Appl
4	15.8	18.2	6564 1 US-09-966-880A-10	Sequence 10, Appl
5	14.4	16.6	2172 1 US-09-966-880A-15	Sequence 15, Appl
6	14.4	16.6	5514 1 US-09-966-880A-9	Sequence 9, Appl
7	13.4	15.4	87 1 US-09-966-880A-11	Sequence 11, Appl
8	13.4	15.4	2172 1 US-09-966-880A-15	Sequence 15, Appl
9	11.6	13.3	271 1 US-09-966-880A-13	Sequence 13, Appl
10	10.4	12.0	148 1 US-09-966-880A-12	Sequence 12, Appl
11	10.4	12.0	271 1 US-09-966-880A-13	Sequence 13, Appl
12	9.8	11.3	148 1 US-09-966-880A-12	Sequence 12, Appl
13	9.6	11.0	116 1 US-09-966-880A-14	Sequence 14, Appl
14	8.4	9.7	116 1 US-09-966-880A-14	Sequence 14, Appl

ALIGNMENTS

RESULT 1
US-09-966-880A-11
; Sequence 11, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Honjo, Tasuku
; APPLICANT: Muramatsu, Masamichi
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 06501-088001
; CURRENT APPLICATION NUMBER: US/09/966, 880A
; PRIOR FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: PCT/JP00/01918

PRIOR FILING DATE: 2000-03-28
PRIOR APPLICATION NUMBER: JP 11-371382
PRIOR FILING DATE: 1999-12-27
PRIOR APPLICATION NUMBER: JP 11-178999
PRIOR FILING DATE: 1999-06-24
PRIOR APPLICATION NUMBER: JP 11-87192
PRIOR FILING DATE: 1999-03-29
NUMBER OF SEQ ID NOS: 36
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 11
LENGTH: 87
TYPE: DNA
ORGANISM: Homo sapiens
US-09-966-880A-11

Query Match 100.0%; Score 87; DB 1; Length 87;
Best Local Similarity 100.0%; Pred. No. 9e-62;
Matches 87; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AGAGAACCATCATTAATGAGATTTTCTGGCTGAGACTTGAGGAGGAGAGAGA 60
DB 1 AGAGAACCATCATTAATGAGATTTTCTGGCTGAGACTTGAGGAGGAGAGAGA 60

QY 61 AGACACTCTGGACACCACTATGACAG 87
DB 61 AGACACTCTGGACACCACTATGACAG 87

RESULT 2
US-09-966-880A-9
Sequence 9, Application US/09966880A

GENERAL INFORMATION:

APPLICANT: Honjo, Tasuku
APPLICANT: Muramatsu, Masamichi
TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
FILE REFERENCE: 06501-088001
CURRENT APPLICATION NUMBER: US/09/966,880A
CURRENT FILING DATE: 2001-09-28
PRIOR APPLICATION NUMBER: PCT/JP00/01918
PRIOR FILING DATE: 2000-03-28
PRIOR APPLICATION NUMBER: JP 11-371382
PRIOR FILING DATE: 1999-12-27
PRIOR APPLICATION NUMBER: JP 11-178999
PRIOR FILING DATE: 1999-06-24
PRIOR APPLICATION NUMBER: JP 11-87192
NUMBER OF SEQ ID NOS: 36
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 9
LENGTH: 5514
TYPE: DNA
ORGANISM: Homo sapiens

FEATURE:
NAME/KEY: inttron
LOCATION: (1)...(1031)
FEATURE:
NAME/KEY: exon
LOCATION: (1032)...(1118)
FEATURE:
NAME/KEY: inttron
LOCATION: (1119)...(5514)
US-09-966-880A-9

Query Match 100.0%; Score 87; DB 1; Length 5514;

Best Local Similarity 100.0%; Pred. No. 8.8e-56;
Matches 87; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AGAGAACCATCATTAATGAGATTTTCTGGCTGAGACTTGAGGAGGAGAGAGA 60
DB 1032 AGAGAACCATCATTAATGAGATTTTCTGGCTGAGACTTGAGGAGGAGAGAGA 1091

QY 61 AGACACTCTGGACACCACTATGACAG 87

DB 1092 AGACACTCTGGACACCACTATGACAG 1118

RESULT 3

US-09-966-880A-10/c
Sequence 10, Application US/09966880A

GENERAL INFORMATION:

APPLICANT: Honjo, Tasuku
APPLICANT: Muramatsu, Masamichi
TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
FILE REFERENCE: 06501-088001
CURRENT APPLICATION NUMBER: US/09/966,880A
CURRENT FILING DATE: 2001-09-28
PRIOR APPLICATION NUMBER: PCT/JP00/01918
PRIOR FILING DATE: 2000-03-28
PRIOR APPLICATION NUMBER: JP 11-371382
PRIOR FILING DATE: 1999-12-27
PRIOR APPLICATION NUMBER: JP 11-178999
PRIOR FILING DATE: 1999-06-24
PRIOR APPLICATION NUMBER: JP 11-87192
NUMBER OF SEQ ID NOS: 36
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 10
LENGTH: 6564
TYPE: DNA
ORGANISM: Homo sapiens
US-09-966-880A-10

Query Match 20.0%; Score 17.4; DB 1; Length 6564;
Best Local Similarity 62.8%; Pred. No. 0.21; Indels 0; Gaps 0;
Matches 27; Conservative 0; Mismatches 16;

QY 4 GAACCATCATTAATGAGATTTTCTGGCTGAGACTT 46
DB 543 GAACCATCATTAATGAGATTTTCTGGCTGAGACTT 501

RESULT 4

US-09-966-880A-10
Sequence 10, Application US/09966880A

GENERAL INFORMATION:

APPLICANT: Honjo, Tasuku
APPLICANT: Muramatsu, Masamichi
TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
FILE REFERENCE: 06501-088001
CURRENT APPLICATION NUMBER: US/09/966,880A
CURRENT FILING DATE: 2001-09-28
PRIOR APPLICATION NUMBER: PCT/JP00/01918
PRIOR FILING DATE: 2000-03-28
PRIOR APPLICATION NUMBER: JP 11-371382
PRIOR FILING DATE: 1999-12-27
PRIOR APPLICATION NUMBER: JP 11-178999
PRIOR FILING DATE: 1999-06-24
PRIOR APPLICATION NUMBER: JP 11-87192
NUMBER OF SEQ ID NOS: 36
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 10
LENGTH: 6564
TYPE: DNA
ORGANISM: Homo sapiens
US-09-966-880A-10

Query Match 18.2%; Score 15.8; DB 1; Length 6564;

Best Local Similarity 65.7%; Pred. No. 2.5;
Matches 23; Conservative 0; Mismatches 12; Indels 0; Gaps 0;

QY 9 ATCATTAATTAATGAGATTTTCTGGCTGAGAG 43
DB 1765 ATCATTAATTAATGAGATTTTCTGGCTGAGAG 1799

RESULT 5

US-09-966-880A-15
Sequence 15, Application US/09966880A
GENERAL INFORMATION:
APPLICANT: Honjo, Tasuku
TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
FILE REFERENCE: 06501-088001
CURRENT APPLICATION NUMBER: US/09/966,880A
PRIOR FILING DATE: 2001-09-28
PRIOR APPLICATION NUMBER: PCT/JP00/01918
PRIOR FILING DATE: 2000-03-28
PRIOR APPLICATION NUMBER: JP 11-371382
PRIOR FILING DATE: 1999-12-27
PRIOR APPLICATION NUMBER: JP 11-178999
PRIOR FILING DATE: 1999-06-24
PRIOR APPLICATION NUMBER: JP 11-87192
NUMBER OF SEQ ID NOS: 36
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 15
LENGTH: 2172
TYPE: DNA
ORGANISM: Homo sapiens
US-09-966-880A-15

Query Match 16.6%; Score 14.4; DB 1; Length 2172;
Best Local Similarity 65.6%; Pred. No. 4.1;
Matches 21; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

Qy 19 GAAGTGGATTTTCTGCGCTGAGACTTGCAG 50
Db 227 GAAGGACACAGCTCTGGCCAGGAGCTGCTG 258

RESULT 6

US-09-966-880A-9/c
Sequence 9, Application US/09966880A
GENERAL INFORMATION:
APPLICANT: Honjo, Tasuku
TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
FILE REFERENCE: 06501-088001
CURRENT APPLICATION NUMBER: US/09/966,880A
PRIOR FILING DATE: 2001-09-28
PRIOR APPLICATION NUMBER: PCT/JP00/01918
PRIOR FILING DATE: 2000-03-28
PRIOR APPLICATION NUMBER: JP 11-371382
PRIOR FILING DATE: 1999-12-27
PRIOR APPLICATION NUMBER: JP 11-178999
PRIOR FILING DATE: 1999-06-24
PRIOR APPLICATION NUMBER: JP 11-87192
NUMBER OF SEQ ID NOS: 36
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 9
LENGTH: 5514
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: intron
LOCATION: (1)...(1031)
FEATURE:
NAME/KEY: exon
LOCATION: (1032)...(1118)
FEATURE:
NAME/KEY: intron
LOCATION: (1119)...(5514)
US-09-966-880A-9

Query Match 16.6%; Score 14.4; DB 1; Length 5514;
Best Local Similarity 51.6%; Pred. No. 4.4;
Matches 33; Conservative 0; Mismatches 31; Indels 0; Gaps 0;

Qy 24 GAGATTTTCTGCGCTGAGACTTGCAGGAGGCAAGACACTCTGACACCACTATGG 83

Db 642 GAGCTCAGATGACCTCTAATTCCTCCATATTCCTCCAGCTCTCTGAACTCAGTACAG 583

Qy 84 ACAG 87

Db 582 ACAG 579

RESULT 7

US-09-966-880A-11/c
Sequence 11, Application US/09966880A
GENERAL INFORMATION:
APPLICANT: Honjo, Tasuku
TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
FILE REFERENCE: 06501-088001
CURRENT APPLICATION NUMBER: US/09/966,880A
PRIOR FILING DATE: 2001-09-28
PRIOR APPLICATION NUMBER: PCT/JP00/01918
PRIOR FILING DATE: 2000-03-28
PRIOR APPLICATION NUMBER: JP 11-371382
PRIOR FILING DATE: 1999-12-27
PRIOR APPLICATION NUMBER: JP 11-178999
PRIOR FILING DATE: 1999-06-24
PRIOR APPLICATION NUMBER: JP 11-87192
NUMBER OF SEQ ID NOS: 36
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 11
LENGTH: 87
TYPE: DNA
ORGANISM: Homo sapiens
US-09-966-880A-11

Query Match 15.4%; Score 13.4; DB 1; Length 87;
Best Local Similarity 55.3%; Pred. No. 0.026;
Matches 26; Conservative 0; Mismatches 21; Indels 0; Gaps 0;

Qy 21 AGTGAGATTTTCTGCGCTGAGACTTGCAGGAGGCAAGACACT 67
Db 67 AGTGTCTTCTGCTCCCTGCAAGTCTCAGGCCAGAAAATCTCACT 21

RESULT 8

US-09-966-880A-15/c
Sequence 15, Application US/09966880A
GENERAL INFORMATION:
APPLICANT: Muramatsu, Masamichi
TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
FILE REFERENCE: 06501-088001
CURRENT APPLICATION NUMBER: US/09/966,880A
PRIOR FILING DATE: 2001-09-28
PRIOR APPLICATION NUMBER: PCT/JP00/01918
PRIOR FILING DATE: 2000-03-28
PRIOR APPLICATION NUMBER: JP 11-371382
PRIOR FILING DATE: 1999-12-27
PRIOR APPLICATION NUMBER: JP 11-178999
PRIOR FILING DATE: 1999-06-24
PRIOR APPLICATION NUMBER: JP 11-87192
NUMBER OF SEQ ID NOS: 36
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 15
LENGTH: 2172
TYPE: DNA
ORGANISM: Homo sapiens
US-09-966-880A-15

Query Match 15.4%; Score 13.4; DB 1; Length 2172;
Best Local Similarity 52.7%; Pred. No. 11;

Matches 29; Conservative 0; Mismatches 26; Indels 0; Gaps 0;
Cy 9 ATCAATTAATGAGTATTTCTGGCCCTGAGACTTGACGAGGACAAGAGA 63
Db 1831 ATGATACATAGAGTATTTTACTCTTTTACCAACTTATGTACATTAAGA 1777

RESULT 9

US-09-966-880A-13
; Sequence 13, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Honjo, Tasuku
; APPLICANT: Muramatsu, Masamichi
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 06501-088001
; CURRENT APPLICATION NUMBER: US/09/966,880A
; PRIOR FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: PCT/JP00/01918
; PRIOR FILING DATE: 1999-12-27
; PRIOR FILING DATE: 1999-06-24
; PRIOR FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13
; LENGTH: 271
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-966-880A-13

Query Match 13.3%; Score 11.6; DB 1; Length 271;
Best Local Similarity 54.8%; Pred. No. 8.7;
Matches 23; Conservative 0; Mismatches 19; Indels 0; Gaps 0;

Cy 36 GCGTGAAGACTTGACGAGGACAGACACTCTGACACCA 77
Db 227 GCGTCACCGCGCGGGGCGCAATAGCCATCATGACCTTCA 268

RESULT 10

US-09-966-880A-12
; Sequence 12, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Honjo, Tasuku
; APPLICANT: Muramatsu, Masamichi
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 06501-088001
; CURRENT APPLICATION NUMBER: US/09/966,880A
; PRIOR FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: PCT/JP00/01918
; PRIOR FILING DATE: 2000-03-28
; PRIOR FILING DATE: 1999-12-27
; PRIOR FILING DATE: 1999-06-24
; PRIOR FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 12
; LENGTH: 148
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-966-880A-12

Query Match 12.0%; Score 10.4; DB 1; Length 148;
Best Local Similarity 55.6%; Pred. No. 21;
Matches 20; Conservative 0; Mismatches 16; Indels 0; Gaps 0;

Cy 17 TTGAAGTGAATTTTCTGGCCTGAGACTTGACGAG 52

Db 61 TCGGCGTGAAGTCTGCTGCTAGTGAAGAG 96

RESULT 11

US-09-966-880A-13/C
; Sequence 13, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Honjo, Tasuku
; APPLICANT: Muramatsu, Masamichi
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 06501-088001
; CURRENT APPLICATION NUMBER: US/09/966,880A
; PRIOR FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: PCT/JP00/01918
; PRIOR FILING DATE: 2000-03-28
; PRIOR FILING DATE: 1999-12-27
; PRIOR FILING DATE: 1999-06-24
; PRIOR FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13
; LENGTH: 271
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-966-880A-13

Query Match 12.0%; Score 10.4; DB 1; Length 271;
Best Local Similarity 60.7%; Pred. No. 55;
Matches 17; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

Cy 35 GCGCTGAAGCTTGACGAGGACAGAGAG 62
Db 213 GCGCTACGCTTGGCTCTCTCACAGAG 186

RESULT 12

US-09-966-880A-12/C
; Sequence 12, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Honjo, Tasuku
; APPLICANT: Muramatsu, Masamichi
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 06501-088001
; CURRENT APPLICATION NUMBER: US/09/966,880A
; PRIOR FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: PCT/JP00/01918
; PRIOR FILING DATE: 2000-03-28
; PRIOR FILING DATE: 1999-12-27
; PRIOR FILING DATE: 1999-06-24
; PRIOR FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 12
; LENGTH: 148
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-966-880A-12

Query Match 11.3%; Score 9.8; DB 1; Length 148;
Best Local Similarity 66.7%; Pred. No. 56;
Matches 14; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

Cy 1 AGAAGACCATCATTAATGGA 21
Db 138 AGATACCAAGTCCAGTGA 118

RESULT 13
US-09-966-880A-14
Sequence 14, Application US/09966880A

GENERAL INFORMATION:
APPLICANT: Honjo, Tasuku
TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
FILE REFERENCE: 06501-088001
CURRENT FILING DATE: 2001-09-28
PRIOR APPLICATION NUMBER: PCT/JP00/01918
PRIOR FILING DATE: 2000-03-28
PRIOR APPLICATION NUMBER: JP 11-371382
PRIOR FILING DATE: 1999-12-27
PRIOR APPLICATION NUMBER: JP 11-178999
PRIOR FILING DATE: 1999-06-24
PRIOR APPLICATION NUMBER: JP 11-87192
PRIOR FILING DATE: 1999-03-29
NUMBER OF SEQ ID NOS: 36
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 14
LENGTH: 116
TYPE: DNA
ORGANISM: Homo sapiens
US-09-966-880A-14

Query Match 11.0%; Score 9.6; DB 1; Length 116;
Best Local Similarity 56.2%; Pred. No. 51;
Matches 18; Conservative 0; Mismatches 14; Indels 0; Gaps 0;

QY 45 TTGCGAGGAGCGAGACACTCTGACACC 76
DB 25 TTGTAGAAAACGACGAAAGACTTTCAGGCC 56

RESULT 14
US-09-966-880A-14/c
Sequence 14, Application US/09966880A
GENERAL INFORMATION:
APPLICANT: Honjo, Tasuku
TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
FILE REFERENCE: 06501-088001
CURRENT FILING DATE: 2001-09-28
PRIOR APPLICATION NUMBER: PCT/JP00/01918
PRIOR FILING DATE: 2000-03-28
PRIOR APPLICATION NUMBER: JP 11-371382
PRIOR FILING DATE: 1999-12-27
PRIOR APPLICATION NUMBER: JP 11-178999
PRIOR FILING DATE: 1999-06-24
PRIOR APPLICATION NUMBER: JP 11-87192
PRIOR FILING DATE: 1999-03-29
NUMBER OF SEQ ID NOS: 36
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 14
LENGTH: 116
TYPE: DNA
ORGANISM: Homo sapiens
US-09-966-880A-14

Query Match 9.7%; Score 8.4; DB 1; Length 116;
Best Local Similarity 57.7%; Pred. No. 1,9e+02;
Matches 15; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

QY 49 AGGAGGCAAGAGACACTCTGACA 74
DB 113 AAGGATGCGCGAGAGCTGTGAGGA 88

Search completed: March 10, 2004, 13:40:47
Job time : 0.74294 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: March 10, 2004, 13:38:36 ; Search time 1.26385 Seconds
(without alignments)
3.483 Million cell updates/sec

Title: US-09-966-880A-12
Perfect score: 148
Sequence: 1 cctcttgagcaaccgagga.....ttggtatcttcgataaag 148

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 0.5

Searched: 7 segs, 14872 residues

Total number of hits satisfying chosen parameters: 14

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database : US09966880A.seq.*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match Length	DB ID	Description
1	148	100.0	1 US-09-966-880A-12	Sequence 12, Appl
2	148	100.0	1 US-09-966-880A-10	Sequence 10, Appl
3	18.3	12.4	1 US-09-966-880A-9	Sequence 9, Appl
4	15.8	10.7	1 US-09-966-880A-10	Sequence 10, Appl
5	15.4	10.4	1 US-09-966-880A-9	Sequence 9, Appl
6	15.2	10.3	1 US-09-966-880A-12	Sequence 12, Appl
7	14.8	10.0	1 US-09-966-880A-15	Sequence 15, Appl
8	14.8	10.0	1 US-09-966-880A-13	Sequence 13, Appl
9	13.8	9.3	1 US-09-966-880A-14	Sequence 14, Appl
10	13.4	9.1	1 US-09-966-880A-14	Sequence 14, Appl
11	12.6	8.5	1 US-09-966-880A-13	Sequence 13, Appl
12	10.4	7.0	1 US-09-966-880A-11	Sequence 11, Appl
13	9.8	6.6	1 US-09-966-880A-11	Sequence 11, Appl
14	9	6.1	1 US-09-966-880A-14	Sequence 14, Appl

ALIGNMENTS

RESULT 1
US-09-966-880A-12
Sequence 12, Application US/09966880A
GENERAL INFORMATION:
APPLICANT: Honjo, Tasuku
TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
FILE REFERENCE: 06501-088001
CURRENT FILING DATE: 2001-09-28
PRIOR APPLICATION NUMBER: PCT/JP00/01918
PRIOR FILING DATE: 2000-03-28
PRIOR APPLICATION NUMBER: JP 11-371382
PRIOR FILING DATE: 1999-12-27

```

; PRIOR APPLICATION NUMBER: JP 11-178999
; PRIOR FILING DATE: 1999-06-24
; PRIOR APPLICATION NUMBER: JP 11-87192
; PRIOR FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 12
; LENGTH: 148
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-966-880A-12

```

```

Query Match          100.0%; Score 148; DB 1; Length 148;
Best Local Similarity 100.0%; Pred. No. 1.1;
Matches 148; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY 1 CCTCTTGATGAACCGAGAAAGTTCTTTACCAATTCAAAATGTCGGCTGGGCTAAGG 60
DB 1 CCTCTTGATGAACCGAGAAAGTTCTTTACCAATTCAAAATGTCGGCTGGGCTAAGG 60
QY 61 TCGGGGTAGACCTTCTGTCTACGTAGTGAAGAGCGGTGACAGTCTACATCTTTTC 120
DB 61 TCGGGGTAGACCTTCTGTCTACGTAGTGAAGAGCGGTGACAGTCTACATCTTTTC 120
QY 121 ACTGACCTTGGTTATCTTCCCAATTAAG 148
DB 121 ACTGACCTTGGTTATCTTCCCAATTAAG 148

```

```

RESULT 2
US-09-966-880A-10
; Sequence 10, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Honjo, Tasuku
; APPLICANT: Muramatsu, Masamichi
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 06501-088001
; CURRENT APPLICATION NUMBER: US/09/966, 880A
; CURRENT FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: PCT/JP00/01918
; PRIOR FILING DATE: 2000-03-28
; PRIOR APPLICATION NUMBER: JP 11-371382
; PRIOR FILING DATE: 1999-12-27
; PRIOR APPLICATION NUMBER: JP 11-178999
; PRIOR FILING DATE: 1999-06-24
; PRIOR APPLICATION NUMBER: JP 11-87192
; PRIOR FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 10
; LENGTH: 6564
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-966-880A-10

```

```

Query Match          100.0%; Score 148; DB 1; Length 6564;
Best Local Similarity 100.0%; Pred. No. 0.03;
Matches 148; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY 1 CCTCTTGATGAACCGAGAAAGTTCTTTACCAATTCAAAATGTCGGCTGGGCTAAGG 60
DB 1065 CCTCTTGATGAACCGAGAAAGTTCTTTACCAATTCAAAATGTCGGCTGGGCTAAGG 1124
QY 61 TCGGGGTAGACCTTCTGTCTACGTAGTGAAGAGCGGTGACAGTCTACATCTTTTC 120
DB 125 TCGGGGTAGACCTTCTGTCTACGTAGTGAAGAGCGGTGACAGTCTACATCTTTTC 1184
QY 121 ACTGACCTTGGTTATCTTCCCAATTAAG 148
DB 1185 ACTGACCTTGGTTATCTTCCCAATTAAG 1212

```

RESULT 3

```

US-09-966-880A-9/c
; Sequence 9, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Honjo, Tasuku
; APPLICANT: Muramatsu, Masamichi
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 06501-088001
; CURRENT APPLICATION NUMBER: US/09/966, 880A
; CURRENT FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: PCT/JP00/01918
; PRIOR FILING DATE: 2000-03-28
; PRIOR APPLICATION NUMBER: JP 11-371382
; PRIOR FILING DATE: 1999-12-27
; PRIOR APPLICATION NUMBER: JP 11-178999
; PRIOR FILING DATE: 1999-06-24
; PRIOR APPLICATION NUMBER: JP 11-87192
; PRIOR FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 9
; LENGTH: 5514
; TYPE: DNA
; ORGANISM: Homo sapiens
; NAME/KEY: Intron
; LOCATION: (1)...(1031)
; FEATURE:
; NAME/KEY: exon
; LOCATION: (1032)...(1118)
; FEATURE:
; NAME/KEY: Intron
; LOCATION: (1119)...(5514)
US-09-966-880A-9

```

```

Query Match          12.4%; Score 18.3; DB 1; Length 5514;
Best Local Similarity 64.6%; Pred. No. 2.2;
Matches 42; Conservative 0; Mismatches 22; Indels 1; Gaps 1;

```

```

QY 71 ACCTACCTGTGTACGTAG-TGAAGAGCGGTGACAGTGTACATCTTTTCACTGACTT 129
DB 2964 ACCCTCTGGCTGTGTAGATGAGAAAGCGAGGAATCTACATCTTTTCACTGACTT 2905
QY 130 TGGTT 134
DB 2904 TGGTT 2900

```

```

RESULT 4
US-09-966-880A-10/c
; Sequence 10, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Honjo, Tasuku
; APPLICANT: Muramatsu, Masamichi
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 06501-088001
; CURRENT APPLICATION NUMBER: US/09/966, 880A
; CURRENT FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: PCT/JP00/01918
; PRIOR FILING DATE: 2000-03-28
; PRIOR APPLICATION NUMBER: JP 11-371382
; PRIOR FILING DATE: 1999-12-27
; PRIOR APPLICATION NUMBER: JP 11-178999
; PRIOR FILING DATE: 1999-06-24
; PRIOR APPLICATION NUMBER: JP 11-87192
; PRIOR FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 10
; LENGTH: 6564
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-966-880A-10

```

Query Match 10.7%; Score 15.8; DB 1; Length 6564;
 Best Local Similarity 60.5%; Pred. No. 2;
 Matches 26; Conservative 0; Mismatches 17; Indels 0; Gaps 0;

QY 16 GAGGAGATTCTTACCAATTCAAAAATGTCGGCTGGCTAG 58
 DB 1601 GACACAAATTGTTTTCACATTATAAATTTTGTGACAAAG 1559

RESULT 5
 US-09-966-880A-9
 ; Sequence 9, Application US/09966880A
 ; GENERAL INFORMATION:
 ; APPLICANT: Honjo, Tasuku
 ; APPLICANT: Muramatsu, Masamichi
 ; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
 ; FILE REFERENCE: 06501-088001
 ; CURRENT APPLICATION NUMBER: US/09/966,880A
 ; PRIOR FILING DATE: 2001-09-28
 ; PRIOR APPLICATION NUMBER: PCT/JP00/01918
 ; PRIOR FILING DATE: 2000-03-28
 ; PRIOR APPLICATION NUMBER: JP 11-371382
 ; PRIOR FILING DATE: 1999-12-27
 ; PRIOR APPLICATION NUMBER: JP 11-178999
 ; PRIOR FILING DATE: 1999-06-24
 ; PRIOR APPLICATION NUMBER: JP 11-87192
 ; PRIOR FILING DATE: 1999-03-29
 ; NUMBER OF SEQ ID NOS: 36
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 9
 ; LENGTH: 5514
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 ; FEATURE:
 ; NAME/KEY: intron
 ; LOCATION: (1)...(1031)
 ; FEATURE:
 ; NAME/KEY: exon
 ; LOCATION: (1032)...(1118)
 ; FEATURE:
 ; NAME/KEY: intron
 ; LOCATION: (1119)...(5514)
 ; US-09-966-880A-9

Query Match 10.4%; Score 15.4; DB 1; Length 5514;
 Best Local Similarity 76.0%; Pred. No. 2.4;
 Matches 19; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 69 AGACCTACTGCTGCTACGTAGTCAA 93
 DB 4349 AGACGACCTGGGACACACAGTCAA 4373

RESULT 6
 US-09-966-880A-12/c
 ; Sequence 12, Application US/09966880A
 ; GENERAL INFORMATION:
 ; APPLICANT: Honjo, Tasuku
 ; APPLICANT: Muramatsu, Masamichi
 ; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
 ; FILE REFERENCE: 06501-088001
 ; CURRENT APPLICATION NUMBER: US/09/966,880A
 ; PRIOR FILING DATE: 2001-09-28
 ; PRIOR APPLICATION NUMBER: PCT/JP00/01918
 ; PRIOR FILING DATE: 2000-03-28
 ; PRIOR APPLICATION NUMBER: JP 11-371382
 ; PRIOR FILING DATE: 1999-12-27
 ; PRIOR APPLICATION NUMBER: JP 11-178999
 ; PRIOR FILING DATE: 1999-06-24
 ; PRIOR APPLICATION NUMBER: JP 11-87192
 ; PRIOR FILING DATE: 1999-03-29
 ; NUMBER OF SEQ ID NOS: 36
 ; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 12
 ; LENGTH: 148
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 ; US-09-966-880A-12

Query Match 10.3%; Score 15.2; DB 1; Length 148;
 Best Local Similarity 45.2%; Pred. No. 78;
 Matches 56; Conservative 0; Mismatches 68; Indels 0; Gaps 0;

QY 24 TTCTTACCAATTCAAAATGTCGGCTGAGGCTGACCTACCTGTCT 83
 DB 147 TTATGGGAAGATACCAAGTCCAGTGAAAGATGTGCACTGCAGCCTTCAT 88
 QY 84 ACCTAGTGAAGAGCGCTGACAGTGTACATCTTTTCACTGACCTTGTGTGCA 143
 DB 87 ACCTAGCAGCAGTAGTCTTCACGCCGACCCCTTAGCCAGCGACATTTTGAATTGTAA 28
 QY 144 ATAA 147
 DB 27 AGAA 24

RESULT 7
 US-09-966-880A-15
 ; Sequence 15, Application US/09966880A
 ; GENERAL INFORMATION:
 ; APPLICANT: Honjo, Tasuku
 ; APPLICANT: Muramatsu, Masamichi
 ; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
 ; FILE REFERENCE: 06501-088001
 ; CURRENT APPLICATION NUMBER: US/09/966,880A
 ; PRIOR FILING DATE: 2001-09-28
 ; PRIOR APPLICATION NUMBER: PCT/JP00/01918
 ; PRIOR FILING DATE: 2000-03-28
 ; PRIOR APPLICATION NUMBER: JP 11-371382
 ; PRIOR FILING DATE: 1999-12-27
 ; PRIOR APPLICATION NUMBER: JP 11-178999
 ; PRIOR FILING DATE: 1999-06-24
 ; PRIOR APPLICATION NUMBER: JP 11-87192
 ; PRIOR FILING DATE: 1999-03-29
 ; NUMBER OF SEQ ID NOS: 36
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 15
 ; LENGTH: 2172
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 ; US-09-966-880A-15

Query Match 10.0%; Score 14.8; DB 1; Length 2172;
 Best Local Similarity 56.0%; Pred. No. 5.9; 22; Indels 0; Gaps 0;
 Matches 28; Conservative 0; Mismatches 22; Indels 0; Gaps 0;

QY 70 GACCTACCTGCTGCTACGTAGTGAAGGCGTGAAGGTGCTACCTCTTT 119
 DB 1876 GATTCTCTTCTTGATATATTGAATGAGATCTCAAGCTTCAATTT 1925

RESULT 8
 US-09-966-880A-15/c
 ; Sequence 15, Application US/09966880A
 ; GENERAL INFORMATION:
 ; APPLICANT: Honjo, Tasuku
 ; APPLICANT: Muramatsu, Masamichi
 ; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
 ; FILE REFERENCE: 06501-088001
 ; CURRENT APPLICATION NUMBER: US/09/966,880A
 ; PRIOR FILING DATE: 2001-09-28
 ; PRIOR APPLICATION NUMBER: PCT/JP00/01918
 ; PRIOR FILING DATE: 2000-03-28
 ; PRIOR APPLICATION NUMBER: JP 11-371382
 ; PRIOR FILING DATE: 1999-12-27
 ; PRIOR APPLICATION NUMBER: JP 11-178999


```
/ PRIOR FILING DATE: 1999-06-24
/ PRIOR APPLICATION NUMBER: JP 11-87192
/ PRIOR FILING DATE: 1999-03-29
/ NUMBER OF SEQ ID NOS: 36
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 15
/ LENGTH: 2172
/ TYPE: DNA
/ ORGANISM: Homo sapiens
US-09-966-880A-15
```

```
Query Match          10.0%; Score 14.8; DB 1; Length 2172;
Best Local Similarity 64.7%; Pred. No. 5.9;
Matches 22; Conservative 0; Mismatches 12; Indels 0; Gaps 0;
```

```
QY 106 TGTCTACATCTTTTCACTGAGACTTGTGTTATCTT 139
DB 1556 TTCCCATCTTCTCTCTCCCAATATGTTCTCTT 1523
```

```
RESULT 9
US-09-966-880A-13/c
/ Sequence 13, Application US/09966880A
/ GENERAL INFORMATION:
/ APPLICANT: Honjo, Tasuku
/ APPLICANT: Muramatsu, Masamichi
/ TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
/ FILE REFERENCE: 06501-088001
/ CURRENT APPLICATION NUMBER: US/09/966,880A
/ PRIOR FILING DATE: 2001-09-28
/ PRIOR APPLICATION NUMBER: PCT/JP00/01918
/ PRIOR FILING DATE: 2000-03-28
/ PRIOR APPLICATION NUMBER: JP 11-371382
/ PRIOR FILING DATE: 1999-12-27
/ PRIOR APPLICATION NUMBER: JP 11-178999
/ PRIOR FILING DATE: 1999-06-24
/ PRIOR APPLICATION NUMBER: JP 11-87192
/ PRIOR FILING DATE: 1999-03-29
/ NUMBER OF SEQ ID NOS: 36
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 13
/ LENGTH: 271
/ TYPE: DNA
/ ORGANISM: Homo sapiens
US-09-966-880A-13
```

```
Query Match          9.3%; Score 13.8; DB 1; Length 271;
Best Local Similarity 49.3%; Pred. No. 45;
Matches 36; Conservative 0; Mismatches 37; Indels 0; Gaps 0;
```

```
QY 76 CCTGTGCTACGTAGTAGAGGCGGTACAGTCTACATCTTTTCACTGAGACTTGTGTTA 135
DB 204 CTTGGGGTCTCTACAGAACTAGAGGGCGCGGTGAAGATCTCAGACTGAGTTGGGTT 145
QY 136 TCTTGGCAATPAG 148
DB 144 CCTCGCAGAAAG 132
```

```
RESULT 10
US-09-966-880A-14/c
/ Sequence 14, Application US/09966880A
/ GENERAL INFORMATION:
/ APPLICANT: Honjo, Tasuku
/ APPLICANT: Muramatsu, Masamichi
/ TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
/ FILE REFERENCE: 06501-088001
/ CURRENT APPLICATION NUMBER: US/09/966,880A
/ PRIOR FILING DATE: 2001-09-28
/ PRIOR APPLICATION NUMBER: PCT/JP00/01918
/ PRIOR FILING DATE: 2000-03-28
/ PRIOR APPLICATION NUMBER: JP 11-371382
/ PRIOR FILING DATE: 1999-12-27
```

```
/ PRIOR APPLICATION NUMBER: JP 11-178999
/ PRIOR FILING DATE: 1999-06-24
/ PRIOR APPLICATION NUMBER: JP 11-87192
/ PRIOR FILING DATE: 1999-03-29
/ NUMBER OF SEQ ID NOS: 36
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 14
/ LENGTH: 116
/ TYPE: DNA
/ ORGANISM: Homo sapiens
US-09-966-880A-14
```

```
Query Match          9.1%; Score 13.4; DB 1; Length 116;
Best Local Similarity 46.3%; Pred. No. 16+02;
Matches 44; Conservative 0; Mismatches 51; Indels 0; Gaps 0;
```

```
QY 54 CTAAAGGTGGGCTGAGACTTACTGTCTAGTAGTAGAGGGGTGACAGTGTACTAT 113
DB 116 CAAAGAGATGGCGGAGAGCTGTCTGAGAGAGCACTGAATTTTCTAGCAGCCCTTCCA 57
```

```
QY 114 CTTTTCAGTGACTTGTGTTACTTCGCAATPAG 148
DB 56 GGCCTTGAAGATTCTTCTGTTCTTTCTACAAAG 22
```

```
RESULT 11
US-09-966-880A-13
/ Sequence 13, Application US/09966880A
/ GENERAL INFORMATION:
/ APPLICANT: Honjo, Tasuku
/ APPLICANT: Muramatsu, Masamichi
/ TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
/ FILE REFERENCE: 06501-088001
/ CURRENT APPLICATION NUMBER: US/09/966,880A
/ PRIOR FILING DATE: 2001-09-28
/ PRIOR APPLICATION NUMBER: PCT/JP00/01918
/ PRIOR FILING DATE: 2000-03-28
/ PRIOR APPLICATION NUMBER: JP 11-371382
/ PRIOR FILING DATE: 1999-12-27
/ PRIOR APPLICATION NUMBER: JP 11-178999
/ PRIOR FILING DATE: 1999-06-24
/ PRIOR APPLICATION NUMBER: JP 11-87192
/ PRIOR FILING DATE: 1999-03-29
/ NUMBER OF SEQ ID NOS: 36
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 13
/ LENGTH: 271
/ TYPE: DNA
/ ORGANISM: Homo sapiens
US-09-966-880A-13
```

```
Query Match          8.5%; Score 12.6; DB 1; Length 271;
Best Local Similarity 66.7%; Pred. No. 47;
Matches 18; Conservative 0; Mismatches 9; Indels 0; Gaps 0;
```

```
QY 49 CTGGGCTTAAGGGTGGCGGTGAGACTTA 75
DB 28 CTCGCTACATCTCTGAGCTGGGACTTA 54
```

```
RESULT 12
US-09-966-880A-11
/ Sequence 11, Application US/09966880A
/ GENERAL INFORMATION:
/ APPLICANT: Honjo, Tasuku
/ APPLICANT: Muramatsu, Masamichi
/ TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
/ FILE REFERENCE: 06501-088001
/ CURRENT APPLICATION NUMBER: US/09/966,880A
/ PRIOR FILING DATE: 2001-09-28
/ PRIOR APPLICATION NUMBER: PCT/JP00/01918
/ PRIOR FILING DATE: 2000-03-28
/ PRIOR APPLICATION NUMBER: JP 11-371382
```

```

; PRIOR FILING DATE: 1999-12-27
; PRIOR APPLICATION NUMBER: JP 11-178999
; PRIOR FILING DATE: 1999-06-24
; PRIOR APPLICATION NUMBER: JP 11-87192
; PRIOR FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11
; LENGTH: 87
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-966-880A-11

```

```

Query Match
Best Local Similarity 7.0%; Score 10.4; DB 1; Length 87;
Matches 20; Conservative 0; Mismatches 16; Indels 0; Gaps 0;

```

```

QY 61 TCGGCGTGAACCTTCTGTCTAGCTAGTGAAGAG 96
DB 17 TTGAAGTGAATTTTCTGCGCTGAGACTTGACAGG 52

```

```

RESULT 13
US-09-966-880A-11/c
; Sequence 11, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Honjo, Tasuku
; APPLICANT: Muramatsu, Masamichi
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 06501-088001
; CURRENT APPLICATION NUMBER: US/09/966,880A
; PRIOR FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: PCT/JP00/01918
; PRIOR FILING DATE: 2000-03-28
; PRIOR APPLICATION NUMBER: JP 11-371382
; PRIOR FILING DATE: 1999-12-27
; PRIOR APPLICATION NUMBER: JP 11-178999
; PRIOR FILING DATE: 1999-06-24
; PRIOR APPLICATION NUMBER: JP 11-87192
; PRIOR FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11
; LENGTH: 87
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-966-880A-11

```

```

Query Match
Best Local Similarity 6.6%; Score 9.8; DB 1; Length 87;
Matches 14; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

```

```

QY 118 TTCACGTGACCTTGCTTATCT 138
DB 21 TTCAATTATGATGTTCTCT 1

```

```

RESULT 14
US-09-966-880A-14
; Sequence 14, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Honjo, Tasuku
; APPLICANT: Muramatsu, Masamichi
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 06501-088001
; CURRENT APPLICATION NUMBER: US/09/966,880A
; PRIOR FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: PCT/JP00/01918
; PRIOR FILING DATE: 2000-03-28
; PRIOR APPLICATION NUMBER: JP 11-371382
; PRIOR FILING DATE: 1999-12-27
; PRIOR APPLICATION NUMBER: JP 11-178999
; PRIOR FILING DATE: 1999-06-24

```

```

; PRIOR APPLICATION NUMBER: JP 11-87192
; PRIOR FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 14
; LENGTH: 116
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-966-880A-14

```

```

Query Match
Best Local Similarity 6.1%; Score 9; DB 1; Length 116;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY 111 CATCCTTT 119
DB 107 CATCCTTT 115

```

```

Search completed: March 10, 2004, 13:40:47
Job time : 1.26385 secs

```

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

```

Run on: March 10, 2004, 13:38:36 / Search time 2.31421 Seconds
(without alignments)
3.483 Million cell updates/sec

```

```

Title: US-09-966-880A-13
Perfect score: 271
Sequence: 1 aacgcctgcacgctggaatt.....agccatcatgaccttcaag 271

```

```

Scoring table: IDENTITY NUC
Gapop 10.0, Gapext 0.5
Searched: 7 segs, 14872 residues

```

Total number of hits satisfying chosen parameters: 14

```

Minimum DB seq length: 0
Maximum DB seq length: 200000000

```

```

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

```

Database : US09966880A.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	271	100.0	271	1	US-09-966-880A-13
2	271	100.0	6564	1	US-09-966-880A-10
3	20.6	7.6	6564	1	US-09-966-880A-10
4	20.2	7.5	271	1	US-09-966-880A-13
5	17.6	6.5	5514	1	US-09-966-880A-9
6	16	5.9	5514	1	US-09-966-880A-9
7	13.8	5.1	148	1	US-09-966-880A-12
8	13.4	4.9	2172	1	US-09-966-880A-15
9	12.6	4.6	148	1	US-09-966-880A-12
10	12	4.4	2172	1	US-09-966-880A-15
11	11.6	4.3	87	1	US-09-966-880A-11
12	10.4	3.8	87	1	US-09-966-880A-11

c 13 10 3.7 116 1 US-09-966-880A-14 Sequence 14, Appl
14 8.8 3.2 116 1 US-09-966-880A-14 Sequence 14, Appl

ALIGNMENTS

RESULT 1

US-09-966-880A-13

Sequence 13, Application US/09966880A

GENERAL INFORMATION:

APPLICANT: Honjo, Tasuku

APPLICANT: Muramatsu, Masamichi

TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE

FILE REFERENCE: 06501-088001

CURRENT APPLICATION NUMBER: US/09/966,880A

CURRENT FILING DATE: 2001-09-28

PRIOR APPLICATION NUMBER: PCT/JP00/01918

PRIOR FILING DATE: 2000-03-28

PRIOR APPLICATION NUMBER: JP 11-371382

PRIOR FILING DATE: 1999-12-27

PRIOR APPLICATION NUMBER: JP 11-178999

PRIOR FILING DATE: 1999-06-24

PRIOR APPLICATION NUMBER: JP 11-87192

PRIOR FILING DATE: 1999-03-29

NUMBER OF SEQ ID NOS: 36

SOFTWARE: FastSeq for Windows Version 4.0

SEQ ID NO 13

LENGTH: 271

TYPE: DNA

ORGANISM: Homo sapiens

US-09-966-880A-13

Query Match 100.0%; Score 271; DB 1; Length 271;

Best Local Similarity 100.0%; Pred. No. 0.68;

Matches 271; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AACGGCTGCCAGTGGAAATTTGCTTCTCCGCTACATCTTGAGACTGGAGCTAGACCTT 60
DB 1 AACGGCTGCCAGTGGAAATTTGCTTCTCCGCTACATCTTGAGACTGGAGCTAGACCTT 60
QY 61 GGGCGCTGCTACCGGCTGACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 120
DB 61 GGGCGCTGCTACCGGCTGACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 120
QY 121 CATGTGGCGGACTTTCTGAGAGGAAACCCCAACCTCACTGAGAGCTGAGCGCGCCG 180
DB 121 CATGTGGCGGACTTTCTGAGAGGAAACCCCAACCTCACTGAGAGCTGAGCGCGCGC 180
QY 181 CTCTACTTCTGTGAGAGCGGAAAGGCTGAGCGCGCTGAGCGCGCTGAGCGCGCC 240
DB 181 CTCTACTTCTGTGAGAGCGGAAAGGCTGAGCGCGCTGAGCGCGCTGAGCGCGCC 240
QY 241 GGGGTGCAATATGACCATATGACCTTCAAG 271
DB 241 GGGGTGCAATATGACCATATGACCTTCAAG 271

RESULT 2

US-09-966-880A-10

Sequence 10, Application US/09966880A

GENERAL INFORMATION:

APPLICANT: Honjo, Tasuku

APPLICANT: Muramatsu, Masamichi

TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE

FILE REFERENCE: 06501-088001

CURRENT APPLICATION NUMBER: US/09/966,880A

CURRENT FILING DATE: 2001-09-28

PRIOR APPLICATION NUMBER: PCT/JP00/01918

PRIOR FILING DATE: 2000-03-28

PRIOR APPLICATION NUMBER: JP 11-371382

PRIOR FILING DATE: 1999-12-27

PRIOR APPLICATION NUMBER: JP 11-178999

;; PRIOR FILING DATE: 1999-06-24
;; PRIOR APPLICATION NUMBER: JP 11-87192
;; PRIOR FILING DATE: 1999-03-29
;; NUMBER OF SEQ ID NOS: 36
;; SOFTWARE: FastSeq for Windows Version 4.0
;; SEQ ID NO 10
;; LENGTH: 6564
;; TYPE: DNA
;; ORGANISM: Homo sapiens
US-09-966-880A-10

US-09-966-880A-10

Query Match 100.0%; Score 271; DB 1; Length 6564;

Best Local Similarity 100.0%; Pred. No. 0.03;

Matches 271; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AACGGCTGCCAGTGGAAATTTGCTTCTCCGCTACATCTTGAGACTGGAGCTAGACCTT 60
DB 2592 AACGGCTGCCAGTGGAAATTTGCTTCTCCGCTACATCTTGAGACTGGAGCTAGACCTT 2651
QY 61 GGGCGCTGCTACCGGCTGACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 120
DB 2652 GGGCGCTGCTACCGGCTGACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 120
QY 121 CATGTGGCGGACTTTCTGAGAGGAAACCCCAACCTCACTGAGAGCTGAGCGCGCCG 180
DB 2712 CATGTGGCGGACTTTCTGAGAGGAAACCCCAACCTCACTGAGAGCTGAGCGCGCGC 2771
QY 181 CTCTACTTCTGTGAGAGCGGAAAGGCTGAGCGCGCTGAGCGCGCTGAGCGCGCC 240
DB 2772 CTCTACTTCTGTGAGAGCGGAAAGGCTGAGCGCGCTGAGCGCGCTGAGCGCGCC 2831
QY 241 GGGGTGCAATATGACCATATGACCTTCAAG 271
DB 2832 GGGGTGCAATATGACCATATGACCTTCAAG 2862

RESULT 3

US-09-966-880A-10/c

Sequence 10, Application US/09966880A

GENERAL INFORMATION:

APPLICANT: Honjo, Tasuku

APPLICANT: Muramatsu, Masamichi

TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE

FILE REFERENCE: 06501-088001

CURRENT APPLICATION NUMBER: US/09/966,880A

CURRENT FILING DATE: 2001-09-28

PRIOR APPLICATION NUMBER: PCT/JP00/01918

PRIOR FILING DATE: 2000-03-28

PRIOR APPLICATION NUMBER: JP 11-371382

PRIOR FILING DATE: 1999-12-27

PRIOR APPLICATION NUMBER: JP 11-178999

PRIOR FILING DATE: 1999-06-24

PRIOR APPLICATION NUMBER: JP 11-87192

PRIOR FILING DATE: 1999-03-29

NUMBER OF SEQ ID NOS: 36

SOFTWARE: FastSeq for Windows Version 4.0

SEQ ID NO 10

LENGTH: 6564

TYPE: DNA

ORGANISM: Homo sapiens

US-09-966-880A-10

Query Match 7.6%; Score 20.6; DB 1; Length 6564;

Best Local Similarity 51.6%; Pred. No. 1.8;

Matches 47; Conservative 0; Mismatches 44; Indels 0; Gaps 0;

QY 173 GGGCGGCTCTTACTTCTGTGAGAGCGGAAAGGCTGAGCGCGCTGAGCGCGCTGCG 232
DB 2872 CTTTGGCAGCTTTGAAGGTCATGATGCTATTTGACCCCGCGGCTGAGCGCGCGC 2813
QY 233 ACCGCGCGGGGTGCAATATGACCATATGAC 263
DB 2812 AGCCCTGGGGCTGACCTTGGGCTCTGAC 2782

```

RESULT 4
US-09-966-880A-13/c
; Sequence 13, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Muramatsu, Masamichi
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 06501-088001
; CURRENT APPLICATION NUMBER: US/09/966,880A
; PRIOR FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: PCT/JP00/01918
; PRIOR FILING DATE: 2000-03-28
; PRIOR APPLICATION NUMBER: JP 11-371382
; PRIOR FILING DATE: 1999-12-27
; PRIOR APPLICATION NUMBER: JP 11-178999
; PRIOR FILING DATE: 1999-06-24
; PRIOR APPLICATION NUMBER: JP 11-87192
; PRIOR FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13
; LENGTH: 271
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-966-880A-13

Query Match
Best Local Similarity 7.5%; Score 20.2; DB 1; Length 271;
Matches 40; Conservative 0; Mismatches 33; Indels 0; Gaps 0;

QY 191 GTGAGACCGCAGGCTGAGCCCGAGGCGCTGCGCGGCTGACCCGCGGGTCAAA 250
DB 263 GTCATGATGGCTATTGTGACCCCGCGGCTGACAGCCCGACGCGCTCGGCTCAGCC 204
QY 251 TAGCCATCATGAC 263
DB 203 TTGCGGCTCCTCAGC 191

```

```

; LOCATION: (1119)...(5514)
US-09-966-880A-9

Query Match
Best Local Similarity 5.9%; Score 16; DB 1; Length 5514;
Matches 31; Conservative 0; Mismatches 25; Indels 0; Gaps 0;

QY 31 CGCTGACTCTCGAGCTGAGACCTAGACCTGCGCGCTGACCGGCTGACCTGTTACG 90
DB 1008 CCTTACATTCATAATTGAGCTTGCCCTTTGGGCTCCTCCCGAGAGATCAACCCG 949
QY 91 TCCTGAGCCCC 102
DB 948 ACCAGGTACCCC 937

RESULT 6
US-09-966-880A-9
; Sequence 9, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Honjo, Tasuku
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 06501-088001
; CURRENT APPLICATION NUMBER: US/09/966,880A
; PRIOR FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: PCT/JP00/01918
; PRIOR FILING DATE: 2000-03-28
; PRIOR APPLICATION NUMBER: JP 11-371382
; PRIOR FILING DATE: 1999-12-27
; PRIOR APPLICATION NUMBER: JP 11-178999
; PRIOR FILING DATE: 1999-06-24
; PRIOR APPLICATION NUMBER: JP 11-87192
; PRIOR FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 9
; LENGTH: 5514
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURES:
; NAME/KEY: intron
; LOCATION: (1)...(1031)
; NAME/KEY: exon
; LOCATION: (1032)...(1118)
; NAME/KEY: intron
; LOCATION: (1119)...(5514)
US-09-966-880A-9

Query Match
Best Local Similarity 5.9%; Score 16; DB 1; Length 5514;
Matches 31; Conservative 0; Mismatches 25; Indels 0; Gaps 0;

QY 36 CATCTGGAGTGGAGACTAGACCTTGGCGCTGCTACCGGCTGACCTGTTACCT 91
DB 2023 CAGCGAGGCTGTCTTAAGTCTTGCGCCAGCGATCTCTCGTGGGCTCTCT 2078

RESULT 7
US-09-966-880A-12/c
; Sequence 12, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Muramatsu, Masamichi
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 06501-088001
; CURRENT APPLICATION NUMBER: US/09/966,880A
; PRIOR FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: PCT/JP00/01918
; PRIOR FILING DATE: 2000-03-28
; PRIOR APPLICATION NUMBER: JP 11-371382

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: PRIOR FILING DATE: 1999-12-27
: PRIOR APPLICATION NUMBER: JP 11-178999
: PRIOR FILING DATE: 1999-06-24
: PRIOR APPLICATION NUMBER: JP 11-87192
: PRIOR FILING DATE: 1999-03-29
: NUMBER OF SEQ ID NOS: 36
: SOFTWARE: FastSeq for Windows Version 4.0
: SEQ ID NO 12
: LENGTH: 148
: TYPE: DNA
: ORGANISM: Homo sapiens
: US-09-966-880A-12

```

Query Match	5.1%;	Score 13.8;	DB 1;	Length 148;
Best Local Similarity	49.3%;	Pred. No. 84;		
Matches	36;	Conservative	0;	Mismatches 37;
			Indels	0;
			Gaps	0;

Qy 132 CTTTCTGCGAGGAACTCCAACTCTGAGATCTTACCGCGCCTCTACTTCTG 191
148 CTTATTGCGAAGATTAACCAAGTCCAGTGAAGAAGATGTAGCACTGTACACGCTCTTAC 89
Db

```

QY      192  TGAGGACCGCAAG  204
          |   |   |   |   |
Db      88   TACGTAGCACAGG  76

```

RESULT 8
US-09-966-880A-15/c

```

/ Sequence 15, Application US/09968680A
/ GENERAL INFORMATION:
/ APPLICANT: Honjo, Tasuku
/ APPLICANT: Muramatsu, Masamichi
/ TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
/ FILE REFERENCE: 06501-088001
/ CURRENT APPLICATION NUMBER: US/09/966,880A
/ CURRENT FILING DATE: 2001-09-28
/ PRIOR APPLICATION NUMBER: PCT/JPO00/01918
/ PRIOR FILING DATE: 2000-03-26
/ PRIOR APPLICATION NUMBER: JP 11-371382
/ PRIOR FILING DATE: 1999-12-27
/ PRIOR APPLICATION NUMBER: JP 11-178999
/ PRIOR FILING DATE: 1999-06-24
/ PRIOR APPLICATION NUMBER: JP 11-87192
/ PRIOR FILING DATE: 1999-03-29
/ NUMBER OF SEQ ID NOS: 36
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO: 15

```

Query Match	4.9%	Score 13.4;	DB 1;	Length 2172;
Best Local Similarity	52.7%;	Pred. No. 6;		
Matches 29;	Conservative 0;	Mismatches 26;	Indels 0;	Gaps 0;

QY 33 CTACATCTGGACTGGAGCCTTGACCCTTGGCCGCGTACGCAGTCACCTGGTTT C 87
 ||||| | | | | | | | | | |
Db 361 CTCAAAGTCATTAGAAAAACGTTCGACACTTTAGATGCTCCCAAGTCTCTGCAGTTC 307

RESULT 9
US-09-966-880A-12

```

: Sequence 12, Application US/09966880A
:
: GENERAL INFORMATION:
:
: APPLICANT: Honjo, Tasuku
: APPLICANT: Muramatsu, Masamichi
: TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
: FILE REFERENCE: 06501-088001
: CURRENT APPLICATION NUMBER: US/09/966, 880A
: CURRENT FILING DATE: 2001-09-28
: PRIOR APPLICATION NUMBER: PCT/JP00/01918
: PRIOR FILING DATE: 2000-03-28

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? PRIOR APPLICATION NUMBER: JP 11-571382
? PRIOR FILING DATE: 1999-12-27
? PRIOR APPLICATION NUMBER: JP 11-178999
? PRIOR FILING DATE: 1999-06-24
? PRIOR APPLICATION NUMBER: JP 11-87192
? PRIOR FILING DATE: 1999-03-29
? NUMBER OF SEQ ID NOS: 36
? SOFTWARE: FASTSQ for Windows Version 4.0.
? SEQ ID NO 12
? LENGTH: 148
? TYPE: DNA
? ORGANISM: Homo sapiens
? US-03-966-880A-12

```

Query Match	4.6%	Score 12.6;	DB 1;	Length 148;
Best Local Similarity	66.7%	Pred. No. 85;		
Matches 18;	Conservative 0;	Mismatches 9;	Indels 0;	Gaps 0;

Qy	28	CTCCGCTACATCTCGGACTGGGACCTA	54
Db	49	CTGGGCTAAGGGTCCGCGTGAACCTA	75

RESULT 10
US-09-966-880A-15

```

? Sequence 15, Application US/009666880A
? GENERAL INFORMATION:
? APPLICANT: Honjo, Tasuku
? APPLICANT: Muramatsu, Masaamichi
? TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASES
? FILE REFERENCE: 06501-088001
? CURRENT APPLICATION NUMBER: US/09/966,880A
? CURRENT FILING DATE: 2001-09-28
? PRIOR APPLICATION NUMBER: PCT/JP00/01918
? PRIOR FILING DATE: 2000-03-28
? PRIOR APPLICATION NUMBER: JP 11-571382
? PRIOR FILING DATE: 1999-12-27
? PRIOR APPLICATION NUMBER: JP 11-178999
? PRIOR FILING DATE: 1999-06-24
? PRIOR APPLICATION NUMBER: JP 11-87192
? PRIOR FILING DATE: 1999-03-29
? NUMBER OF SEQ ID NOS: 36
? SOFTWARE: FASTSEQ for Windows Version 4.0
? SEQ ID NO 15
? LENGTH: 2172
? TYPE: DNA
? ORGANISM: Homo sapiens
US-09-966-880A-15

```

Query Match	4.4%	Score 12;	DB 1;	Length 2172;
Best Local Similarity	48.5%	Pred. No. 6.1;		
Matches	33;	Conservative	0;	Mismatches 35;
			Indels	0;
			Gaps	0;

Accession	Sequence	Length
QY	87 CACCTCTGGAGGCCCTTGCTACGACCTGCGCATGTGCGCCGACTTTCTCGCAAGGAA	146
Db	522 CTCTTCATCAGGCGCATGATCTATATAGAACCTCTTATAGAGTATCTGGGTGATTGTGAC	581
QY	147 CCCCAACC	154
Db	582 CCCCAACC	589

RESULT 11
US-09-966-880A-11

```

: Sequence 11, Application US/09366880A
:
: GENERAL INFORMATION:
:
: APPLICANT: Honjo, Tasuku
: APPLICANT: Muramatsu Masamichi
: TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
: FILE REFERENCE: 06501-088001
: CURRENT APPLICATION NUMBER: US/09/966, 880A
: PRIOR FILING DATE: 2001-09-28
: PRIOR APPLICATION NUMBER: PCT/JP00/01918

```

```

; PRIOR FILING DATE: 2000-03-28
; PRIOR APPLICATION NUMBER: JP 11-371382
; PRIOR FILING DATE: 1999-12-27
; PRIOR APPLICATION NUMBER: JP 11-178999
; PRIOR FILING DATE: 1999-06-24
; PRIOR APPLICATION NUMBER: JP 11-87192
; PRIOR FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11
; LENGTH: 87
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-966-880A-11

Query Match      4.3%; Score 11.6; DB 1; Length 87;
Best Local Similarity 54.8%; Pred. No. 1.5e+02;
Matches 23; Conservative 0; Mismatches 19; Indels 0; Gaps 0;

QY 227 GCGTCACCGCGCGGTCGCAATAGCATCATGACCTTCA 268
DB 36 GCGTCAGACTTCAGGGAGGCAAGACACTCTGACACCA 77

RESULT 12
US-09-966-880A-11/c
; Sequence 11, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Honjo, Tasuku
; APPLICANT: Muramatsu, Masamichi
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 06501-088001
; CURRENT APPLICATION NUMBER: US/09/966,880A
; PRIOR FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: PCT/JP00/01918
; PRIOR FILING DATE: 2000-03-28
; PRIOR APPLICATION NUMBER: JP 11-371382
; PRIOR FILING DATE: 1999-12-27
; PRIOR APPLICATION NUMBER: JP 11-178999
; PRIOR FILING DATE: 1999-06-24
; PRIOR APPLICATION NUMBER: JP 11-87192
; PRIOR FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11
; LENGTH: 87
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-966-880A-11

Query Match      3.8%; Score 10.4; DB 1; Length 87;
Best Local Similarity 60.7%; Pred. No. 1.5e+02;
Matches 17; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

QY 186 CTTCTGTGAGACCGCAAGGCTGAGCC 213
DB 62 CTTCTGCTCTCCTCGCAAGTCTCAGGCC 35

RESULT 13
US-09-966-880A-14/c
; Sequence 14, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Honjo, Tasuku
; APPLICANT: Muramatsu, Masamichi
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 06501-088001
; CURRENT APPLICATION NUMBER: US/09/966,880A
; PRIOR FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: PCT/JP00/01918
; PRIOR FILING DATE: 2000-03-28
; PRIOR APPLICATION NUMBER: JP 11-371382
; PRIOR FILING DATE: 1999-12-27

```

```

; PRIOR APPLICATION NUMBER: JP 11-178999
; PRIOR FILING DATE: 1999-06-24
; PRIOR APPLICATION NUMBER: JP 11-87192
; PRIOR FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 14
; LENGTH: 116
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-966-880A-14

Query Match      3.7%; Score 10; DB 1; Length 116;
Best Local Similarity 52.4%; Pred. No. 1.1e+02;
Matches 22; Conservative 0; Mismatches 20; Indels 0; Gaps 0;

QY 228 GCGTCACCGCGCGGTCGCAATAGCATCATGACCTTCA 269
DB 69 GCAGCCCTTCCAGGCTTGAAAGTTCTTGGTGTTCTA 28

RESULT 14
US-09-966-880A-14
; Sequence 14, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Honjo, Tasuku
; APPLICANT: Muramatsu, Masamichi
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 06501-088001
; CURRENT APPLICATION NUMBER: US/09/966,880A
; PRIOR FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: PCT/JP00/01918
; PRIOR FILING DATE: 2000-03-28
; PRIOR APPLICATION NUMBER: JP 11-371382
; PRIOR FILING DATE: 1999-12-27
; PRIOR APPLICATION NUMBER: JP 11-178999
; PRIOR FILING DATE: 1999-06-24
; PRIOR APPLICATION NUMBER: JP 11-87192
; PRIOR FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 14
; LENGTH: 116
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-966-880A-14

Query Match      3.2%; Score 8.8; DB 1; Length 116;
Best Local Similarity 57.1%; Pred. No. 1.1e+02;
Matches 16; Conservative 0; Mismatches 12; Indels 0; Gaps 0;

QY 244 GTGCAATAGCATCATGACCTTCAAG 271
DB 27 GTAGAAACCAAGCAAGACCTTCAAG 54

Search completed: March 10, 2004, 13:40:48
Job time : 3.31421 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model
Run on: March 10, 2004, 13:38:36 ; Search time 0.990586 Seconds
(without alignments)
3.483 Million cell updates/sec

Title: US-09-966-880A-14
Perfect score: 116
Sequence: 1 atcatttctactgttggaat.....agcttcggcgcatcctttg 116

```

Scoring table: IDENTITY_NUC

Gapop 10.0, Gapext 0.5

Searched: 7 seqs, 14872 residues

Total number of hits satisfying chosen parameters: 14

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database: US09966880A.seq*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	116	100.0	116	1	US-09-966-880A-14
2	116	100.0	6564	1	US-09-966-880A-10
3	117	14.7	6564	1	US-09-966-880A-10
4	16.2	14.0	5514	1	US-09-966-880A-10
5	16	13.8	2172	1	US-09-966-880A-15
6	14.8	12.8	5514	1	US-09-966-880A-9
7	13.8	11.9	2172	1	US-09-966-880A-15
8	13.4	11.6	148	1	US-09-966-880A-12
9	10.8	9.3	116	1	US-09-966-880A-14
10	10	8.6	271	1	US-09-966-880A-13
11	9.6	8.3	87	1	US-09-966-880A-11
12	9	7.8	148	1	US-09-966-880A-12
13	8.8	7.6	271	1	US-09-966-880A-13
14	8.4	7.2	87	1	US-09-966-880A-11

ALIGNMENTS

RESULT 1
US-09-966-880A-14
Sequence 14, Application US/09966880A

GENERAL INFORMATION:

APPLICANT: Honjo, Tasuku

APPLICANT: Muramatsu, Masamichi

TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE

FILE REFERENCE: 06501-088001

CURRENT APPLICATION NUMBER: US/09/966,880A

CURRENT FILING DATE: 2001-09-28

PRIOR APPLICATION NUMBER: PCT/JP00/01918

PRIOR FILING DATE: 2000-03-28

PRIOR APPLICATION NUMBER: JP 11-371382

PRIOR FILING DATE: 1999-12-27

PRIOR APPLICATION NUMBER: JP 11-178999

PRIOR FILING DATE: 1999-06-24

PRIOR APPLICATION NUMBER: JP 11-87192

PRIOR FILING DATE: 1999-03-29

NUMBER OF SEQ ID NOS: 36

SOFTWARE: FastSeq for Windows Version 4.0

SEQ ID NO 14

LENGTH: 116

TYPE: DNA

ORGANISM: Homo sapiens

US-09-966-880A-14

Query Match 100.0%; Score 116; DB 1; Length 116;
Best Local Similarity 100.0%; Pred. No. 1.2;
Matches 116; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATTATTTTACTGCTGGAACTTTGTGAGAAACCGAAAGAACTTCAAGCTGGG 60
DB 1 ATTATTTTACTGCTGGAACTTTGTGAGAAACCGAAAGAACTTCAAGCTGGG 60
QY 61 AAGGGCTGATGAAATTCAGTTGCTCTCCAGACAGTTGGGGCATTCCTTTG 116
DB 61 AAGGGCTGATGAAATTCAGTTGCTCTCCAGACAGTTGGGGCATTCCTTTG 116

RESULT 2

US-09-966-880A-10

Sequence 10, Application US/09966880A

GENERAL INFORMATION:

APPLICANT: Honjo, Tasuku

APPLICANT: Muramatsu, Masamichi

TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE

FILE REFERENCE: 06501-088001

CURRENT APPLICATION NUMBER: US/09/966,880A

CURRENT FILING DATE: 2001-09-28

PRIOR APPLICATION NUMBER: PCT/JP00/01918

PRIOR FILING DATE: 2000-03-28

PRIOR APPLICATION NUMBER: JP 11-371382

PRIOR FILING DATE: 1999-12-27

PRIOR APPLICATION NUMBER: JP 11-178999

PRIOR FILING DATE: 1999-06-24

PRIOR APPLICATION NUMBER: JP 11-87192

PRIOR FILING DATE: 1999-03-29

NUMBER OF SEQ ID NOS: 36

SOFTWARE: FastSeq for Windows Version 4.0

SEQ ID NO 10

LENGTH: 6564

TYPE: DNA

ORGANISM: Homo sapiens

US-09-966-880A-10

Query Match 100.0%; Score 116; DB 1; Length 6564;
Best Local Similarity 100.0%; Pred. No. 0.03;
Matches 116; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATTATTTTACTGCTGGAACTTTGTGAGAAACCGAAAGAACTTCAAGCTGGG 60
DB 3156 ATTATTTTACTGCTGGAACTTTGTGAGAAACCGAAAGAACTTCAAGCTGGG 3215
QY 61 AAGGGCTGATGAAATTCAGTTGCTCTCCAGACAGTTGGGGCATTCCTTTG 116
DB 3216 AAGGGCTGATGAAATTCAGTTGCTCTCCAGACAGTTGGGGCATTCCTTTG 3271

RESULT 3

US-09-966-880A-10/c

Sequence 10, Application US/09966880A

GENERAL INFORMATION:

APPLICANT: Honjo, Tasuku

APPLICANT: Muramatsu, Masamichi

TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE

FILE REFERENCE: 06501-088001

CURRENT APPLICATION NUMBER: US/09/966,880A

CURRENT FILING DATE: 2001-09-28

PRIOR APPLICATION NUMBER: PCT/JP00/01918

PRIOR FILING DATE: 2000-03-28

PRIOR APPLICATION NUMBER: JP 11-371382

PRIOR FILING DATE: 1999-12-27

PRIOR APPLICATION NUMBER: JP 11-178999

PRIOR FILING DATE: 1999-06-24

PRIOR APPLICATION NUMBER: JP 11-87192

PRIOR FILING DATE: 1999-03-29

NUMBER OF SEQ ID NOS: 36

SOFTWARE: FastSeq for Windows Version 4.0

SEQ ID NO 10

LENGTH: 6564

TYPE: DNA

ORGANISM: Homo sapiens

US-09-966-880A-10

Query Match 14.7%; Score 17; DB 1; Length 6564;
 Best Local Similarity 52.1%; Pred. No. 1.9;
 Matches 38; Conservative 0; Mismatches 35; Indels 0; Gaps 0;

QY 4 ATTTTACTGCTGGAACTTTTGTGAAAACCGAAGAACTTTCAAGCTGGGAG 63
 DB 3178 AGATTTCAGCAGTAATAATCTTCAAAAAAAAAAGAAAAAGCGGGGATA 3119

QY 64 GGCTGCATGAAAA 76
 DB 3118 TGGGGGTAAAGA 3106

RESULT 4

US-09-966-880A-9
 Sequence 9, Application US/09966880A

GENERAL INFORMATION:
 APPLICANT: Honjo, Tasuku
 APPLICANT: Muramatsu, Masamichi
 TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
 FILE REFERENCE: 06501-088001
 CURRENT APPLICATION NUMBER: US/09/966,880A
 PRIOR FILING DATE: 2001-09-28
 PRIOR APPLICATION NUMBER: PCT/JP00/01918
 PRIOR FILING DATE: 2000-03-28
 PRIOR APPLICATION NUMBER: JP 11-371382
 PRIOR FILING DATE: 1999-12-27
 PRIOR APPLICATION NUMBER: JP 11-178999
 PRIOR FILING DATE: 1999-06-24
 PRIOR APPLICATION NUMBER: JP 11-87192
 PRIOR FILING DATE: 1999-03-29
 NUMBER OF SEQ ID NOS: 36
 SOFTWARE: FastSeq for Windows Version 4.0
 SEQ ID NO 9
 LENGTH: 5514
 TYPE: DNA
 ORGANISM: Homo sapiens
 FEATURE:
 NAME/KEY: intron
 LOCATION: (1)...(1031)
 FEATURE:
 NAME/KEY: exon
 LOCATION: (1032)...(1118)
 FEATURE:
 NAME/KEY: intron
 LOCATION: (1119)...(5514)
 US-09-966-880A-9

Query Match 14.0%; Score 16.2; DB 1; Length 5514;
 Best Local Similarity 52.2%; Pred. No. 2.3;
 Matches 36; Conservative 0; Mismatches 33; Indels 0; Gaps 0;

QY 30 GAAACACGAAAGAACTTTCAAGCTGGGAAAGGCTCAGAAATTCAGTTGCTGC 89
 DB 4437 GAAAGCTGCAAGAGGAAAGAAAGCTCTGCTGGGGTGAAGGCTGATTCAGGTTCTGTA 4496

QY 90 TCCAGACAG 98
 DB 4497 TCCTGACTG 4505

RESULT 5

US-09-966-880A-15/C
 Sequence 15, Application US/09966880A

GENERAL INFORMATION:
 APPLICANT: Honjo, Tasuku
 APPLICANT: Muramatsu, Masamichi
 TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
 FILE REFERENCE: 06501-088001
 CURRENT APPLICATION NUMBER: US/09/966,880A
 CURRENT FILING DATE: 2001-09-28

PRIOR APPLICATION NUMBER: PCT/JP00/01918

PRIOR FILING DATE: 2000-03-28
 PRIOR APPLICATION NUMBER: JP 11-371382
 PRIOR FILING DATE: 1999-12-27
 PRIOR APPLICATION NUMBER: JP 11-178999
 PRIOR FILING DATE: 1999-06-24
 PRIOR APPLICATION NUMBER: JP 11-87192
 PRIOR FILING DATE: 1999-03-29
 NUMBER OF SEQ ID NOS: 36
 SOFTWARE: FastSeq for Windows Version 4.0
 SEQ ID NO 15
 LENGTH: 2172
 TYPE: DNA
 ORGANISM: Homo sapiens
 US-09-966-880A-15

Query Match 13.8%; Score 16; DB 1; Length 2172;
 Best Local Similarity 50.0%; Pred. No. 5.5;
 Matches 40; Conservative 0; Mismatches 40; Indels 0; Gaps 0;

QY 7 TTACTGCTGAAATCTTTGTGAAAACCGAAGAACTTTCAAGCTGGGAGGC 66
 DB 2032 TTGCTGTCAATAAGTTACTATAAATCAAGAAATGGCTTGTAGACACATTACTGC 1973

QY 67 TGATGAAATTCAGTTGCT 86
 DB 1972 AATGTCAATTAATCAATGCT 1953

RESULT 6

US-09-966-880A-9/C
 Sequence 9, Application US/09966880A

GENERAL INFORMATION:
 APPLICANT: Honjo, Tasuku
 APPLICANT: Muramatsu, Masamichi
 TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
 FILE REFERENCE: 06501-088001
 CURRENT APPLICATION NUMBER: US/09/966,880A
 PRIOR FILING DATE: 2001-09-28
 PRIOR APPLICATION NUMBER: PCT/JP00/01918
 PRIOR FILING DATE: 2000-03-28
 PRIOR APPLICATION NUMBER: JP 11-371382
 PRIOR FILING DATE: 1999-12-27
 PRIOR APPLICATION NUMBER: JP 11-178999
 PRIOR FILING DATE: 1999-06-24
 PRIOR APPLICATION NUMBER: JP 11-87192
 PRIOR FILING DATE: 1999-03-29
 NUMBER OF SEQ ID NOS: 36
 SOFTWARE: FastSeq for Windows Version 4.0
 SEQ ID NO 9
 LENGTH: 5514
 TYPE: DNA
 ORGANISM: Homo sapiens
 FEATURE:
 NAME/KEY: intron
 LOCATION: (1)...(1031)
 FEATURE:
 NAME/KEY: exon
 LOCATION: (1032)...(1118)
 FEATURE:
 NAME/KEY: intron
 LOCATION: (1119)...(5514)
 US-09-966-880A-9

Query Match 12.8%; Score 14.8; DB 1; Length 5514;
 Best Local Similarity 59.5%; Pred. No. 2.4;
 Matches 25; Conservative 0; Mismatches 17; Indels 0; Gaps 0;

QY 16 GGAATCTTTGTGAAACCGAAGAACTTTCAAGCT 57
 DB 703 GTAATATTATGTAAATACCTTAAGGCAATTAAATAGCTT 662


```
RESULT 7
US-09-966-880A-15
; Sequence 15, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Honjo, Tasuku
; APPLICANT: Muramatsu, Masamichi
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 06501-088001
; CURRENT APPLICATION NUMBER: US/09/966,880A
; PRIOR FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: PCT/JP00/01918
; PRIOR FILING DATE: 2000-03-28
; PRIOR APPLICATION NUMBER: JP 11-371382
; PRIOR FILING DATE: 1999-12-27
; PRIOR APPLICATION NUMBER: JP 11-178999
; PRIOR FILING DATE: 1999-06-24
; PRIOR APPLICATION NUMBER: JP 11-87192
; PRIOR FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 15
; LENGTH: 2172
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-966-880A-15

Query Match      11.9%; Score 13.8; DB 1; Length 2172;
Best Local Similarity 63.6%; Pred. No. 5.9;
Matches 21; Conservative 0; Mismatches 12; Indels 0; Gaps 0;

QY      51 AAAGCTGGGAGGGCTGCATGAAATTCAGT 83
DB      1545 AAGGATGGGAGGACATTCGACGAAATTCGCT 1577

RESULT 8
US-09-966-880A-12/c
; Sequence 12, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Honjo, Tasuku
; APPLICANT: Muramatsu, Masamichi
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 06501-088001
; CURRENT APPLICATION NUMBER: US/09/966,880A
; PRIOR FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: PCT/JP00/01918
; PRIOR FILING DATE: 2000-03-28
; PRIOR APPLICATION NUMBER: JP 11-371382
; PRIOR FILING DATE: 1999-12-27
; PRIOR APPLICATION NUMBER: JP 11-178999
; PRIOR FILING DATE: 1999-06-24
; PRIOR APPLICATION NUMBER: JP 11-87192
; PRIOR FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 12
; LENGTH: 148
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-966-880A-12

Query Match      11.6%; Score 13.4; DB 1; Length 148;
Best Local Similarity 46.3%; Pred. No. 75;
Matches 44; Conservative 0; Mismatches 51; Indels 0; Gaps 0;

QY      22 CTTTGTAGAAAACCGAAGACTTTCAAAGCTGGGAGGCTGCATGAAATTCAG 81
DB      148 CTTATGCGAAGATTAACCAAGTCCAGTGAAGAAGATGACATGTCAGCGCTCTTAC 89
QY      82 TTGCTCTCCAGACAGCTTGGGCGCATCTTTG 116
DB      88 TAGGTAGCACAGGTAGGTCTCAGCGCCGACCTTAG 54
```

```
RESULT 9
US-09-966-880A-14/c
; Sequence 14, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Honjo, Tasuku
; APPLICANT: Muramatsu, Masamichi
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 06501-088001
; CURRENT APPLICATION NUMBER: US/09/966,880A
; PRIOR FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: PCT/JP00/01918
; PRIOR FILING DATE: 2000-03-28
; PRIOR APPLICATION NUMBER: JP 11-371382
; PRIOR FILING DATE: 1999-12-27
; PRIOR APPLICATION NUMBER: JP 11-178999
; PRIOR FILING DATE: 1999-06-24
; PRIOR APPLICATION NUMBER: JP 11-87192
; PRIOR FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 14
; LENGTH: 116
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-966-880A-14

Query Match      9.3%; Score 10.8; DB 1; Length 116;
Best Local Similarity 60.0%; Pred. No. 1e+02;
Matches 18; Conservative 0; Mismatches 12; Indels 0; Gaps 0;

QY      18 AATCTTTGTAGAAAACCGAAGACT 47
DB      47 AGTCTTGTGAGTGTTCCTACAAAGTATT 18

RESULT 10
US-09-966-880A-13/c
; Sequence 13, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Honjo, Tasuku
; APPLICANT: Muramatsu, Masamichi
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 06501-088001
; CURRENT APPLICATION NUMBER: US/09/966,880A
; PRIOR FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: PCT/JP00/01918
; PRIOR FILING DATE: 2000-03-28
; PRIOR APPLICATION NUMBER: JP 11-371382
; PRIOR FILING DATE: 1999-12-27
; PRIOR APPLICATION NUMBER: JP 11-178999
; PRIOR FILING DATE: 1999-06-24
; PRIOR APPLICATION NUMBER: JP 11-87192
; PRIOR FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13
; LENGTH: 271
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-966-880A-13

Query Match      8.6%; Score 10; DB 1; Length 271;
Best Local Similarity 52.4%; Pred. No. 48;
Matches 22; Conservative 0; Mismatches 20; Indels 0; Gaps 0;

QY      28 TAGAAAACCGAAGACTTTCAAAGCTGGGAGGCGCTGC 69
DB      269 TTGAAGTCATGATGCTATTTCACCCGCGCGGTGCAGC 228

RESULT 11
US-09-966-880A-11
```

```

; Sequence 11, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Muramatsu, Masamichi
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 06501-088001
; CURRENT APPLICATION NUMBER: US/09/966,880A
; PRIOR FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: PCT/JP00/01918
; PRIOR FILING DATE: 2000-03-28
; PRIOR APPLICATION NUMBER: JP 11-371382
; PRIOR FILING DATE: 1999-12-27
; PRIOR APPLICATION NUMBER: JP 11-178999
; PRIOR FILING DATE: 1999-06-24
; PRIOR APPLICATION NUMBER: JP 11-87192
; PRIOR FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11
; LENGTH: 87
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-966-880A-11

```

```

Query Match      8.3%; Score 9.6; DB 1; Length 87;
Best Local Similarity 56.2%; Pred. No. 1.4e+02;
Matches 18; Conservative 0; Mismatches 14; Indels 0; Gaps 0;

```

```

QY      25 TTGTAGAAACCAAGAAAGACTTCAAGCC 56
Db      45 TTGACGAGGAGCAAGAAAGACTGTGACACC 76

```

```

RESULT 12
US-09-966-880A-12
; Sequence 12, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Honjo, Tasuku
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 06501-088001
; CURRENT APPLICATION NUMBER: US/09/966,880A
; PRIOR FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: PCT/JP00/01918
; PRIOR FILING DATE: 2000-03-28
; PRIOR APPLICATION NUMBER: JP 11-371382
; PRIOR FILING DATE: 1999-12-27
; PRIOR APPLICATION NUMBER: JP 11-178999
; PRIOR FILING DATE: 1999-06-24
; PRIOR APPLICATION NUMBER: JP 11-87192
; PRIOR FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 12
; LENGTH: 148
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-966-880A-12

```

```

Query Match      7.8%; Score 9; DB 1; Length 148;
Best Local Similarity 100.0%; Pred. No. 87;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY      107 CATCCTTTT 115
Db      111 CATCCTTTT 119

```

```

RESULT 13
US-09-966-880A-13
; Sequence 13, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Honjo, Tasuku

```

```

; APPLICANT: Muramatsu, Masamichi
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 06501-088001
; CURRENT APPLICATION NUMBER: US/09/966,880A
; PRIOR FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: PCT/JP00/01918
; PRIOR FILING DATE: 2000-03-28
; PRIOR APPLICATION NUMBER: JP 11-371382
; PRIOR FILING DATE: 1999-12-27
; PRIOR APPLICATION NUMBER: JP 11-178999
; PRIOR FILING DATE: 1999-06-24
; PRIOR APPLICATION NUMBER: JP 11-87192
; PRIOR FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13
; LENGTH: 271
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-966-880A-13

```

```

Query Match      7.6%; Score 8.8; DB 1; Length 271;
Best Local Similarity 57.1%; Pred. No. 50;
Matches 16; Conservative 0; Mismatches 12; Indels 0; Gaps 0;

```

```

QY      27 GTAGAAACCAAGAAAGACTTCAAG 54
Db      244 GTGAAATAGCATGACCTTCAAG 271

```

```

RESULT 14
US-09-966-880A-11/c
; Sequence 11, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Honjo, Tasuku
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 06501-088001
; CURRENT APPLICATION NUMBER: US/09/966,880A
; PRIOR FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: PCT/JP00/01918
; PRIOR FILING DATE: 2000-03-28
; PRIOR APPLICATION NUMBER: JP 11-371382
; PRIOR FILING DATE: 1999-12-27
; PRIOR APPLICATION NUMBER: JP 11-178999
; PRIOR FILING DATE: 1999-06-24
; PRIOR APPLICATION NUMBER: JP 11-87192
; PRIOR FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11
; LENGTH: 87
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-966-880A-11

```

```

Query Match      7.2%; Score 8.4; DB 1; Length 87;
Best Local Similarity 57.7%; Pred. No. 1.5e+02;
Matches 15; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

```

```

QY      88 TCTCCAGACGCTTGGCGCATCCTT 113
Db      74 TGTCCAGAGTGTCTTCTTGCCTCCCT 49

```

```

Search completed: March 10, 2004, 13:40:48
Job time : 0.990586 secs

```

Run on: March 10, 2004, 13:38:36 ; Search time 18.5479 Seconds

(Without alignments)
3.483 Million cell updates/sec

Title: US-09-966-880A-15

Perfect score: 2172

Sequence: 1 cccctgtagtgagtgatgata.....agtagtgagtaataacttg 2172

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 0.5

Searched: 7 seqs, 14872 residues

Total number of hits satisfying chosen parameters: 14

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : US09966880A.seq*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	2172	100.0	2172	1	US-09-966-880A-15
2	2172	100.0	6564	1	US-09-966-880A-10
3	178.6	8.2	5514	1	US-09-966-880A-9
4	174.2	8.0	5514	1	US-09-966-880A-9
5	29.4	1.4	6564	1	US-09-966-880A-10
6	26	1.2	2172	1	US-09-966-880A-15
7	16	0.7	116	1	US-09-966-880A-14
8	14.8	0.7	148	1	US-09-966-880A-12
9	14.8	0.7	148	1	US-09-966-880A-12
10	14.4	0.7	87	1	US-09-966-880A-11
11	13.8	0.6	116	1	US-09-966-880A-14
12	13.4	0.6	87	1	US-09-966-880A-11
13	13.4	0.6	271	1	US-09-966-880A-13
14	12	0.6	271	1	US-09-966-880A-13

ALIGNMENTS

RESULT 1
US-09-966-880A-15
; Sequence 15, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Honjo, Tasuku
; APPLICANT: Muramatsu, Masamichi
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 06501-088001
; CURRENT APPLICATION NUMBER: US/09/966,880A
; CURRENT FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: PCT/JP00/01918
; PRIOR FILING DATE: 2000-03-28
; PRIOR APPLICATION NUMBER: JP 11-371382
; PRIOR FILING DATE: 1999-12-27
; PRIOR APPLICATION NUMBER: JP 11-178999
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: JP 11-87192
; PRIOR FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 15
; LENGTH: 2172
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-966-880A-15

Query Match 100.0%; Score 2172; DB 1; Length 2172;
Best Local Similarity 100.0%; Pred. No. 6.3e-59;
Matches 2172; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY	1	CCCCTGTATGAGTGTGATGACTTACGAGACCGCATTTGCTACTTTGGGACTTTGATAGAA	60
DB	1	CCCCTGTATGAGTGTGATGACTTACGAGACCGCATTTGCTACTTTGGGACTTTGATAGAA	60
QY	61	CTTCAGGAAGTGTACACAGATGAAATATCTGCTGAGAGAGTGTATATAAACAAGT	120
DB	61	CTTCAGGAAGTGTACACAGATGAAATATCTGCTGAGAGAGTGTATATAAACAAGT	120
QY	121	CCTCAAGCTCTCTGTTTATCTTCAACTCTCACTTTCTTGAAGTTTACAGAAAA	180
DB	121	CCTCAAGCTCTCTGTTTATCTTCAACTCTCACTTTCTTGAAGTTTACAGAAAA	180
QY	181	ATATTATATACAGCTCTTTAAAAAGATCTATGCTTGAATAATGAGAGACAGAGT	240
DB	181	ATATTATATACAGCTCTTTAAAAAGATCTATGCTTGAATAATGAGAGACAGAGT	240
QY	241	CTGGCCAGGAGAGTGTGCAATGTGTGAGTTTGAATGCAACATTGCCCTACTGGGA	300
DB	241	CTGGCCAGGAGAGTGTGCAATGTGTGAGTTTGAATGCAACATTGCCCTACTGGGA	300
QY	301	ATACAGAACTGACAGACCTGGAGCATCTTAAAGTGTCAAGTTTCTATGACTTTTA	360
DB	301	ATACAGAACTGACAGACCTGGAGCATCTTAAAGTGTCAAGTTTCTATGACTTTTA	360
QY	361	GCTAGGATGAGAGCAGAAAGTATCTTAAAGCATGTGAGAGATCAAAATGTTTAA	420
DB	361	GCTAGGATGAGAGCAGAAAGTATCTTAAAGCATGTGAGAGATCAAAATGTTTAA	420
QY	421	TATCAACATCTTTATATTTGATTCATTTGAGTTTAAAGTGTGTTAGTATATTTT	480
DB	421	TATCAACATCTTTATATTTGATTCATTTGAGTTTAAAGTGTGTTAGTATATTTT	480
QY	481	TCTATCTTTTCCCTGAGCTTTACTTTCAGATAACAAGTCTTCATCAGGACATGA	540
DB	481	TCTATCTTTTCCCTGAGCTTTACTTTCAGATAACAAGTCTTCATCAGGACATGA	540
QY	541	TCTATCTTTTCCCTGAGCTTTACTTTCAGATAACAAGTCTTCATCAGGACATGA	600
DB	541	TCTATCTTTTCCCTGAGCTTTACTTTCAGATAACAAGTCTTCATCAGGACATGA	600
QY	601	GCTTATATATCCATATGCGCTGTATGTTTAAATCAGAGAGAGATGTTTATGTTTG	660
DB	601	GCTTATATATCCATATGCGCTGTATGTTTAAATCAGAGAGAGATGTTTATGTTTG	660
QY	661	TACAAAAGAGATGTTTATGAGTGTGAGAGTATGAGATGAGATGAGATGAGATGAG	720
DB	661	TACAAAAGAGATGTTTATGAGTGTGAGAGTATGAGATGAGATGAGATGAGATGAG	720
QY	721	GCTACTTATATAGAGATTTAAATGGGACAGAGAGCTGTGAAGAGACCTTATTA	780
DB	721	GCTACTTATATAGAGATTTAAATGGGACAGAGAGCTGTGAAGAGACCTTATTA	780
QY	781	TGGGTGATGCTGAGATGAGAAATCTTGTGAGAAAGCAATCTTTTAAAGAGTCCCT	840
DB	781	TGGGTGATGCTGAGATGAGAAATCTTGTGAGAAAGCAATCTTTTAAAGAGTCCCT	840
QY	841	AATTTAGAAACCCCAACTTCAATATCAATATATGAGAAACCAATTTGAGAGAGTTG	900
DB	841	AATTTAGAAACCCCAACTTCAATATCAATATATGAGAAACCAATTTGAGAGAGTTG	900
QY	901	CTTGAATGTTGGGAGAGAGAAATCTATGAGTCTCTGAGGCTCTTATCTCAGAAATG	960
DB	901	CTTGAATGTTGGGAGAGAGAAATCTATGAGTCTCTGAGGCTCTTATCTCAGAAATG	960


```

Db      4161 TATCAATCTTTATTTGATTCATTTGAGTTAAAGCTGGTGTGATGATGATTT 4220
Qy      481 TCTATCTTTTCCCTTGACGTTTACTTCAAGTAACAACAACTCTTCATCAGGCCATGA 540
Db      4221 TCTATCTTTTCCCTTGACGTTTACTTCAAGTAACAACAACTCTTCATCAGGCCATGA 4280
Qy      541 TCTATAGACCTCTTAATGAGATGATCTGGGTGATGTGACCCCAACCATCTCTCCAAA 600
Db      4281 TCTATAGACCTCTTAATGAGATGATCTGGGTGATGTGACCCCAACCATCTCTCCAAA 4340
Qy      601 GCATTAATATCCATCATGCGCTGTATGTTTATCAGAGAAAGCATGTTTATGTTTG 660
Db      4341 GCATTAATATCCATCATGCGCTGTATGTTTATCAGAGAAAGCATGTTTATGTTTG 4400
Qy      661 TACAAAAGAGATGTTATGSGTGGGATGAGAGTATAGACATGATGATGATGATGATGAT 720
Db      4401 TACAAAAGAGATGTTATGSGTGGGATGAGAGTATAGACATGATGATGATGATGATGAT 4460
Qy      721 GCTACTTTAATMAAGATCTTAAATGGGAGAGAGCTGTGAACAAGACACCTATATA 780
Db      4461 GCTACTTTAATMAAGATCTTAAATGGGAGAGAGCTGTGAACAAGACACCTATATA 4520
Qy      781 TGGGTTGATGTCTGAGTAGCAAACTTTCTGGAAAAGCAAACTCTTTTAAAGAACTCT 840
Db      4521 TGGGTTGATGTCTGAGTAGCAAACTTTCTGGAAAAGCAAACTCTTTTAAAGAACTCT 4580
Qy      841 AATTTAGAAAACCCCAACAACTTCATCATATCATATTAAGCAACAAATTGGAAGAACTTG 900
Db      4581 AATTTAGAAAACCCCAACAACTTCATCATATCATATTAAGCAACAAATTGGAAGAACTTG 4640
Qy      901 CTGGAATGTGGGAGAGAAATCTATGSGTCTCGTGGGTCTCTCATCTCAGAAATG 960
Db      4641 CTGGAATGTGGGAGAGAAATCTATGSGTCTCGTGGGTCTCTCATCTCAGAAATG 4700
Qy      961 CCAATCAGTCAAGTGTCTACATTTGTATGTGTGATGCTCTCCCAAGATAT 1020
Db      4701 CCAATCAGTCAAGTGTCTACATTTGTATGTGTGATGCTCTCCCAAGATAT 4760
Qy      1021 TAACTATTAAGAGATGTGTACAACAAACAGATATTAAGTGGAAACCGTGGACAACGC 1080
Db      4761 TAACTATTAAGAGATGTGTACAACAAACAGATATTAAGTGGAAACCGTGGACAACGC 4820
Qy      1081 TCATAGTCTGAGCTGCTGGAGGTGAGAGAGAGAGTGGCTTGAACAAGAGTTCAA 1140
Db      4821 TCATAGTCTGAGCTGCTGGAGGTGAGAGAGAGAGTGGCTTGAACAAGAGTTCAA 4880
Qy      1141 GAGCAGCTGGGCAACATPAACAAGATCTGTCTCAAAAAAAAAAAAAAAAAAGAAA 1200
Db      4881 GAGCAGCTGGGCAACATPAACAAGATCTGTCTCAAAAAAAAAAAAAAAAAAGAAA 4940
Qy      1201 GAGAGAGGCGCGGCGTGTGCTCAAGCTGTATATCCAGACATTTGGAGGCGGAGCC 1260
Db      4941 GAGAGAGGCGCGGCGTGTGCTCAAGCTGTATATCCAGACATTTGGAGGCGGAGCC 5000
Qy      1261 GGGCGGATCACTGTGTGTCAGAGATTTGAGACAGCTGTGCAACATGGCAAAACCCCGT 1320
Db      5001 GGGCGGATCACTGTGTGTCAGAGATTTGAGACAGCTGTGCAACATGGCAAAACCCCGT 5060
Qy      1321 CTGTAATCAAAAATGCAAAAATTAAGCGAGCGGTGAGAGGACCTGTATATCCAGCTAC 1380
Db      5061 CTGTAATCAAAAATGCAAAAATTAAGCGAGCGGTGAGAGGACCTGTATATCCAGCTAC 5120
Qy      1381 TTGGAGGCTGAGGAGAGAGATCGTTGAACCCAGAGAGTGAAGTTCAGTAAGCTGA 1440
Db      5121 TTGGAGGCTGAGGAGAGAGATCGTTGAACCCAGAGAGTGAAGTTCAGTAAGCTGA 5180
Qy      1441 GATGTCGCTGTGCACTTCAGCTGGGAGACAAGAGCACTGTGTCTCAAAAAAAAA 1500
Db      5181 GATGTCGCTGTGCACTTCAGCTGGGAGACAAGAGCACTGTGTCTCAAAAAAAAA 5240
Qy      1501 AAAAAAAAAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1560
Db      5241 AAAAAAAAAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 5300

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Qy      1561 TCGAAGAAATTTGCTTTATCCAAACAAATGTAGAGCCAAATPAGGATCCATTTG 1620
Db      5301 TCGAAGAAATTTGCTTTATCCAAACAAATGTAGAGCCAAATPAGGATCCATTTG 5360
Qy      1621 TCTCTTTGGTGTCTATTTGTCCTTACAACTGTCTTTGAAGAGAGAGAGAGAGAGAG 1680
Db      5361 TCTCTTTGGTGTCTATTTGTCCTTACAACTGTCTTTGAAGAGAGAGAGAGAGAGAG 5420
Qy      1681 ATACCAATATCCCTGCGGATTTACCTAGCAACCTTGAATGAAGATGAGAGATCC 1740
Db      5421 ATACCAATATCCCTGCGGATTTACCTAGCAACCTTGAATGAAGATGAGAGATCC 5480
Qy      1741 ACAGAAAACCTGAATGACAACTGTCTTATTTTAACTTATTTGATACAAAGTTGTAA 1800
Db      5481 ACAGAAAACCTGAATGACAACTGTCTTATTTTAACTTATTTGATACAAAGTTGTAA 5540
Qy      1801 AAGATTAAATTTGATCTTCAATGATTCATTTATATTTATTTTGGCTTAATG 1860
Db      5541 AAGATTAAATTTGATCTTCAATGATTCATTTATTTATTTATTTTGGCTTAATG 5600
Qy      1861 AATTTTATTAACATGATTTCTTTCTGATATATATTAAGAGTCTCAAGCTTCATA 1920
Db      5601 AATTTTATTAACATGATTTCTTTCTGATATATTAAGAGTCTCAAGCTTCATA 5660
Qy      1921 AATTTATACCTTGAAGATGATTTCTATTAACAAGTATGATTTGATCATTCAGATAT 1980
Db      5661 AATTTATACCTTGAAGATGATTTCTATTAACAAGTATGATTTGATCATTCAGATAT 5720
Qy      1981 GGTGCTACGAGCACTTTCTCTGATTTTGTAGTAACTTTATGACAGCAATTTGCTTC 2040
Db      5721 GGTGCTACGAGCACTTTCTCTGATTTTGTAGTAACTTTATGACAGCAATTTGCTTC 5780
Qy      2041 TGGCTCACTTCAATCAGTTAAATTAATGATTAATTAATTTTGGAAAGCTGTGAAGTAAA 2100
Db      5781 TGGCTCACTTCAATCAGTTAAATTAATGATTAATTAATTTTGGAAAGCTGTGAAGTAAA 5840
Qy      2101 TACCAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 2160
Db      5841 TACCAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 5900
Qy      2161 GGAATTAAGTTG 2172
Db      5901 GGAATTAAGTTG 5912

RESULT 3
US-09-966-880A-9/c
; Sequence 9: Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Honjo, Tasuku
; APPLICANT: Muramatsu, Masamichi
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 06501-088001
; CURRENT APPLICATION NUMBER: US/09/966,880A
; CURRENT FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: PCT/JP00/01918
; PRIOR FILING DATE: 2000-03-28
; PRIOR APPLICATION NUMBER: JP 11-371382
; PRIOR FILING DATE: 1999-12-27
; PRIOR APPLICATION NUMBER: JP 11-178999
; PRIOR FILING DATE: 1999-06-24
; PRIOR APPLICATION NUMBER: JP 11-87192
; PRIOR FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PaeSeq for Windows Version 4.0
; SEQ ID NO 9
; LENGTH: 5514
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: Intron
; LOCATION: (1)...(1031)

```


APPLICANT: Muramatsu, Masamichi
TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
FILE REFERENCE: 06501-088001

```

; CURRENT APPLICATION NUMBER: US/09/966,880A
; CURRENT FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: PCT/JP00/01918
; PRIOR FILING DATE: 2000-03-28
; PRIOR APPLICATION NUMBER: JP 11-371382
; PRIOR FILING DATE: 1999-12-27
; PRIOR APPLICATION NUMBER: JP 11-178999
; PRIOR FILING DATE: 1999-06-24
; PRIOR APPLICATION NUMBER: JP 11-87192
; PRIOR FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11
; LENGTH: 87
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-966-880A-11

```

```

Query Match          0.7%; Score 14.4; DB 1; Length 87;
Best Local Similarity 65.6%; Pred. No. 21;
Matches 21; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

```

```

QY      227 GAAGAACACAGCTGCGCAGGACGTCGTC 258
DB      19 GAAGTACATTTTCTGCGCTGAGACTTGACG 50

```

```

RESULT 11
US-09-966-880A-14
; Sequence 14, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Honjo, Tasuku
; APPLICANT: Muramatsu, Masamichi
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 06501-088001
; CURRENT APPLICATION NUMBER: US/09/966,880A
; CURRENT FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: PCT/JP00/01918
; PRIOR FILING DATE: 2000-03-28
; PRIOR APPLICATION NUMBER: JP 11-371382
; PRIOR FILING DATE: 1999-12-27
; PRIOR APPLICATION NUMBER: JP 11-178999
; PRIOR FILING DATE: 1999-06-24
; PRIOR APPLICATION NUMBER: JP 11-87192
; PRIOR FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 14
; LENGTH: 116
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-966-880A-14

```

```

Query Match          0.6%; Score 13.8; DB 1; Length 116;
Best Local Similarity 63.6%; Pred. No. 30;
Matches 21; Conservative 0; Mismatches 12; Indels 0; Gaps 0;

```

```

QY      1545 AAGGATGGGAAAGCATTCGAAGAAATGTGCT 1577
DB      51 AAGGCTGGGAAAGGCTGCATGAATAATTCAGTT 83

```

```

RESULT 12
US-09-966-880A-11/c
; Sequence 11, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Honjo, Tasuku
; APPLICANT: Muramatsu, Masamichi
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 06501-088001
; CURRENT APPLICATION NUMBER: US/09/966,880A
; CURRENT FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: PCT/JP00/01918

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; PRIOR FILING DATE: 2000-03-28
; PRIOR APPLICATION NUMBER: JP 11-371382
; PRIOR FILING DATE: 1999-12-27
; PRIOR APPLICATION NUMBER: JP 11-178999
; PRIOR FILING DATE: 1999-06-24
; PRIOR APPLICATION NUMBER: JP 11-87192
; PRIOR FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11
; LENGTH: 87
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-966-880A-11

```

```

Query Match          0.6%; Score 13.4; DB 1; Length 87;
Best Local Similarity 52.7%; Pred. No. 23;
Matches 29; Conservative 0; Mismatches 26; Indels 0; Gaps 0;

```

```

QY      1777 TCTTATGTACATTAAGTTGTAAGATTAAATGTTACTGATGATTCAT 1831
DB      63 TCTTCTGCTCCCTCAGTCTCAGGCCAGAAATCTCATTTCAATTATGAT 9

```

```

RESULT 13
US-09-966-880A-13/c
; Sequence 13, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Honjo, Tasuku
; APPLICANT: Muramatsu, Masamichi
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 06501-088001
; CURRENT APPLICATION NUMBER: US/09/966,880A
; CURRENT FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: PCT/JP00/01918
; PRIOR FILING DATE: 2000-03-28
; PRIOR APPLICATION NUMBER: JP 11-371382
; PRIOR FILING DATE: 1999-12-27
; PRIOR APPLICATION NUMBER: JP 11-178999
; PRIOR FILING DATE: 1999-06-24
; PRIOR APPLICATION NUMBER: JP 11-87192
; PRIOR FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13
; LENGTH: 271
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-966-880A-13

```

```

Query Match          0.6%; Score 13.4; DB 1; Length 271;
Best Local Similarity 52.7%; Pred. No. 41;
Matches 29; Conservative 0; Mismatches 26; Indels 0; Gaps 0;

```

```

QY      307 GAATCAGACCTGGAGACATCTAAAGTGTCAACGTTTTTCATGACTTTAG 361
DB      87 GAACGAGTACGCGGTAGCAGCGCCAGCGGTCTAGTCCAGTCCGAGATGAT 33

```

```

RESULT 14
US-09-966-880A-13
; Sequence 13, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Honjo, Tasuku
; APPLICANT: Muramatsu, Masamichi
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 06501-088001
; CURRENT APPLICATION NUMBER: US/09/966,880A
; CURRENT FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: PCT/JP00/01918
; PRIOR FILING DATE: 2000-03-28
; PRIOR APPLICATION NUMBER: JP 11-371382
; PRIOR FILING DATE: 1999-12-27

```


; PRIOR APPLICATION NUMBER: JP 11-178999
; PRIOR FILING DATE: 1999-06-24
; PRIOR APPLICATION NUMBER: JP 11-87192
; PRIOR FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO: 13
; LENGTH: 271
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-966-880A-13

Query Match 0.6%; Score 12; DB 1; Length 271;
Best Local Similarity 48.5%; Pred. No. 42;
Matches 33; Conservative 0; Mismatches 35; Indels 0; Gaps 0;

QY	522	CTCTTCATCAGGCGCATATCTATAGAACTTCTTATAGAGATATCTGGGTGATTGTGAC	581
DB	87	CACCTCTGTGAGAGCCCTGTGTACACTGTGCCGACATGTGGCCGACCTTTCTGCGAGGGAA	146
QY	582	CCCAACC	589
DB	147	CCCAACC	154

Search completed: March 10, 2004, 13:40:49
Job time : 19.5479 secs